



General Services Administration
Office of the Chief Information Officer (OCIO)
Public Buildings Information Technology Services (PB-ITS)
Center for Building Information Programs

**Statement of Work/Request for Quote
Central Facility Repository (CFR)
Operations & Maintenance Support Services**

June 28, 2018

1.0 Introduction

1.1 Purpose

General Services Administration's (GSA), Office of the Chief Information Officer – Office of Public Buildings Information Technology Services (PB-ITS) in support of the users of all business lines within Public Buildings Service (PBS), 1800 F Street, NW, Washington, DC is seeking to maintain the continuity of operations and maintenance (O&M) services of the Central Facility Repository (CFR) application. This application is primarily managed by the Center for Building Information Programs which serves as the agency-wide originator of transformational building information applications. The CFR supports the mission of GSA by providing a single repository of current, pending and previous building conditions. The application contributes to achieving the GSA Strategic Objectives including improving the way Federal agencies buy, build and use technology.

1.2 Objective

The objective of this BPA Call is to perform the work described in this document, with paramount importance placed on quality, efficiency, cost effectiveness, and optimal utilization of resources. The Contractor shall exercise their best efforts in performing the required services and provide qualified staff in order to perform services in a complete, prompt, accurate, professional and efficient manner. The ability to respond to and perform assignments with high quality services within stringent time frames is essential. The Contractor shall maintain continuous performance regardless of holidays, vacations or sick leave. As a part of the scope of work, the Contractor shall perform the tasks described throughout this document. All tasks shall be performed in close and continuous coordination with the appropriate PB-ITS Government representatives: PB-ITS Project and Program Managers and/or Contracting Officer's Representative (COR) (hereinafter "the Government"). All the approaches and/or methodologies proposed by the contractor are subject to the approval of the Government and all deliverables are subject to review by the Government prior to acceptance. The Contractor shall provide all personnel, administration, management, and local travel necessary to perform the following functions:

- Program and Technical Support
- Operation and Maintenance Support
- Tier II-III Helpdesk Services
- Systems Enhancements (As Requested by the Government - OPTIONAL)
- Compliance with Procedures and Guidelines

The period of performance for this SOW will consist of a 12-month base period and four (4) 12-month option periods.

1.3 Background

In support of PBS's mission to "To provide effective and sustainable workplace solutions for federal agencies at the best value for the American Taxpayer", the CFR is intended to provide a virtual reflection of all current characteristics of the PBS owned and leased inventory.

Prior to the establishment of CFR, building-related documents were stored in a myriad of places, many of which were inaccessible by business lines. Those that were accessible were stored in a variety of formats, access methods and security paradigms. CFR brought together these various sources into a single platform, integrating enterprise security, rich document management features and even 3D visualization of multi-dimensional building models to provide all of PBS with a single, reliable source of truth for building conditions.

The existing incarnation of CFR is primarily document-centric. Users are provisioned access to regional libraries that contain representative documents of current conditions, historical conditions and unadjudicated conditions, primarily for federally owned inventory (as opposed to leased inventory).

Although CFR provides a place to store, view and manage many forms of building information, the true visionary stance is to provide a living hologram of the current conditions of every facility matching the physical characteristics (in multiple architecture and engineering disciplines) of the facility in real time.

The primary interface to CFR is through the Alfresco Content Services platform. Within the Alfresco framework, CFR provides tools to store, view and manage many types of documents, including Computer Aided Drafting (CAD), Building Information Modeling (BIM), Portable Document Format (PDF), various kinds of photos and more.

The CFR inventory houses over 1.7 million documents, consuming nearly 3 terabytes of storage space, utilized by nearly 500 users. Contributors are adding an average of 25,000 documents per month to the inventory. Each document should have representative attributes (metadata) ascribed to it, providing easy recognition of pertinent data points and meaningful search characteristics.

With this contracted effort, the Center for Building Information Programs expects to further solidify CFR as the premier tool of choice for managing and sharing building information, serving PBS employees across the nation.

Application Technical Description

Hardware	x86-64 on vmware	
Operating System	Microsoft Windows Server 2008, 2012	
Software	Platform / Module	Version
	Alfresco Enterprise Content Management (ECM)	5.2.1
	Redhat JBoss Enterprise Application Platform (EAP)	6.4.0
	Formtek Engineering Data Management (EDM) Module	3.0
	BIMserver.org	1.4.0
	Redhat JBoss Web Server (JWS)	3.0

	Oracle Berkeley DB Java Edition (JE)	7.0
	ProStep PDF Generator 3D Server	5.0
	Oracle Database Enterprise Edition	12.1
	JasperReports Server Enterprise Edition	6.3.0

The CFR application had one major release (6 requirements) and two emergency fixes in the last 12 months. No major releases in the O&M scope are expected in the next 12 months, but optional enhancement requests may introduce reactionary changes under O&M.

2.0 Scope of Work

The Contractor shall provide all personnel, administration, management and local travel necessary in support of the CFR application and ensure its success by providing support in the following areas:

- Operation and Maintenance Support
- Project Management Support
- Enterprise Quality Program
- Tier II-III Helpdesk Services
- Quality Assurance
- Security Compliance
- Optional Enhancement Support

This work will include but is not limited to software development, integration, testing, routine maintenance, platform and component upgrades, responses to infrastructure changes, defect identification and remediation, requirements development, capturing of enhancements, audit support, system analysis, impact analysis, documentation, reports, and progress monitoring using reporting procedures and measures of performance. These shall be in accordance with industry best practices, NIST, OMB, GSA and PB-ITS policy and guidance in a manner consistent with CMMI Level III and ISO 9001:2015 practices and protocols.

When possible, the Contractor shall execute processes in a sustainable and repeatable process using an Agile methodology of identifying, describing, testing and delivering technical solutions.

The Contractor shall be responsible for the integration and support of the application including all enhancements made to the application.

3.0 Specific Requirements or Tasks

The Contractor shall assume responsibility to provide support for the operation, maintenance and performance of the Central Facility Repository. Support for this application includes all environments.

The Contractor shall coordinate all technical implementation tasks with Government-designated support teams including server, application, network and/or security teams. This includes all necessary technical support, changes and architectural expertise to maintain the application in compliance with all existing GSA policies and guidelines. Issues that may be discovered through scans, reviews, audits, and regular usage throughout the BPA Call and phase-out periods shall be resolved in the timeframes defined by GSA Policy.

The Contractor shall follow the approved PB-ITS lifecycle methodology for system upgrades, releases, and maintenance activities. See Attachment B, PB-ITS Technical Roadmap.

3.1 Task 1: Operation and Maintenance

The Contractor shall ensure the application is available for use and shall resolve defects when identified. Fixes to defects may include modification of executable code. In the event of such changes, the Contractor shall execute software testing and configuration management efforts. The Contractor shall continue to maintain existing interfaces to other applications. The Contractor shall coordinate with the ESC regarding system outages and hardware/ firmware or interface issues.

Activities include:

- Identifying and repairing defects resulting from design errors, logic errors and coding errors. The Contractor shall document the defects resulting from:
 - Data processing errors, system performance errors, escaped defects from internal Contractor quality control, independent verification and validation (IV&V) by GSA-designated representatives, and user acceptance testing (UAT), or reported through a help desk or other incident identification methods.
 - Corrections to a system stoppage or an inaccuracy in the application, which must be dealt with and issued immediately.
- The Contractor shall:
 - Ensure the application is operable using the GSA list of approved desktop and server software. Specifically, PB-ITS requires the use of hardware/software/tools that are on PB-ITS IT Technology Roadmap (**Attachment B**), which is a subset of the GSA approved list of approved software, unless exception is provided by GSA Enterprise Architecture.
 - Ensure and test that the application remains equally compatible with GSA-designated desktop operating systems and internet browsers including Internet Explorer, Google Chrome, and others as required. The current agency standard for desktop operating systems includes Microsoft Windows 10 and internet browsers Microsoft Internet Explorer and Google Chrome.
 - Ensure the application remains optimally operational following government and commercial best practices of design, such as the U.S. Web Design System (<https://designsystem.digital.gov>).
 - Ensure the application is optimally performant and secure following government and commercial best practices of implementation. The Contractor may recommend to Government-designated support teams technical configurations that may improve performance, availability or stability. However, the Contractor

- shall ensure the application is optimally available given the architecture, toolsets, configurations and resources available within the agency.
- Notify the Government of hotfixes or end-of-life dates to the operating system, middleware, database or supporting technical platforms (including patches) impacting the usability or having an impact on the application. Contractor shall be responsible for coordinating with the Government to ensure components of the application will be upgraded prior to the end-of-life hardware/software.
- Ensure the application remains operable following changes to the environment in which the application resides. The application will optimally perform with applied patches in accordance with IT Security Policy and prior to Government-designated published update cycles. The environment changes may result from updates to business rules or processes, government policies, and software and hardware platforms.
- The Contractor shall support server or data migrations to ensure applications are operational post-migration. Migration activities may include any environment, on-premises server to server, data conversions, on-premises to cloud, application refactoring or other topologies.
- The Contractor shall perform maintenance to ensure the application meets minimum accepted performance targets. Maintaining the system's performance, maintainability, reliability and security shall follow emerging standards such as the Consortium for IT Software Quality (CISQ) (<http://it-cisq.org/standards/>), including the updating of documentation and the upgrade of components, frameworks, versions to maintain the technical operation of the information system.
- The Contractor shall deliver corrective responses to security findings ensuring compliance with Government security requirements. Delivery of these corrective security findings shall be conducted within the timeline designated by audit teams, or may follow prescribed deadlines. The Contractor shall ensure the corrective response is within the minimally recommended date. Current policy requires all high and critical findings to be resolved within 30 days.

3.1.1 Release Subtask

The Contractor shall develop and maintain all documentation required by PB-ITS (see related EQP section below).

The Contractor shall prepare release packages based on the maintenance release plan and strategy.

The Contractor shall ensure that the design and implemented features of the release meet the stated Government requirements.

The Contractor shall coordinate and lead User Acceptance Testing (UAT) sessions. UAT is required for all major releases and optional for minor releases. The Contractor shall provide test cases to the Government PM that will be utilized during UAT. The Contractor shall remediate resulting shortcomings in application performance and ancillary documentation (e.g. user manuals, quick guides) resulting from UAT.

The Contractor shall provide support for Independent Verification & Validation (IV&V) testing, conducted by PB-ITS IV&V teams. Note that IV&V teams are not limited to Test Plan scenarios.

The Contractor shall support deployment of the release into all environments including integration, test and production.

The Contractor shall ensure applications are tested under “real world” loads and scenarios to maintain optimal average “page load time” for each page in the application and “% of slow pages” for average of the entire application. The Government will provide the Contractor with the target metrics for page load time and percent of slow pages, currently less than 5 seconds and zero percent, respectively. The Contractor shall recommend configuration settings to optimize infrastructure and shall modify application code to meet government performance targets.

3.1.2 Quality Management Subtask

For any identified defects in the application, the Contractor shall report the defect by assigned severity category and the release phase in which the defect was discovered as follows:

- Start of formal system testing phase up to release of software to IV&V
- During IV&V
- Start of deployment to the end customer through the first three months of operational use after deployment, or
- During operations and maintenance

Upon discovery of an escape defect, logic error and/or coding error, the Contractor shall initiate a root cause analysis (RCA). The RCA prepared by the Contractor shall indicate the error, its symptoms and the impact of the error on present operations. If a workaround is available, the workaround (and any other relevant instructions) shall be documented for end users and/or Tier 1 helpdesk personnel to use until the error is corrected.

The RCA report shall indicate the time the defect was first reported as well as progress notes (including resolution estimates if known). This report shall explain in non-technical language all pertinent details of the error and resolution once the error’s solution is known.

The initial report shall be delivered via email to the Government PM and Contracting Officer’s Representative (COR). Each report shall indicate the next estimated update. The Contractor shall provide updates to the Government PM and COR following this schedule and/or when requested by the Government.

3.2 Task 2: Project Management

The Contractor shall provide project management support throughout the BPA Call. This includes the management and oversight of all activities performed by contractor personnel, including subcontractors, to satisfy the task/subtasks identified.

The Contractor shall designate a Project Manager (PM) by name for all issues, concerns or updates related to the performance of this task order. The Contractor PM shall be responsible for overall execution of this task and shall have full authority to make decisions and commit the

contractor's organization under this task. The Contractor PM shall work closely with Government personnel and respond to GSA's questions, concerns, and comments. The Contractor PM shall be proactive in alerting GSA to potential contractual issues, including situations that may compromise the contractor's ability to provide the required services.

3.2.1 Project Management Plan

The Contractor shall develop an overall Project Management Plan (PMP) describing the parameters by which project activities will be guided. At a minimum, the PMP should describe various assumptions, constraints, and dependencies; provide a work breakdown structure; describe deployment plans; explain tenets of change control management; cite factors of schedule and time management; list important milestones; show how risks will be mitigated and quality maintained; and describe preferred communication pathways.

3.2.2 Monthly Status Report

The Contractor shall develop and provide a Monthly Status Report (MSR), using office productivity applications (e.g. Microsoft Office, Google G-Suite) via electronic mail to the Government PM and the COR. The MSR shall include, but is not limited to, the following:

- a. Activities during the reporting period, by task and subtask to include (but not limited to) on-going activities, new activities, completed activities, pending activities (on hold), and abandoned activities. All activities should provide a brief description of the task or subtask, pertinent details of progress or stoppage, and estimated dates of completion.
- b. Problems or issues (apart from defects) that were encountered and corrective actions taken. Also include issues or concerns with proposed resolutions to address them.
- c. Personnel gains, losses, and status, to include Homeland Security Presidential Directive (HSPD)-12 badging status, security clearance, usernames, team roles and possession of government furnished equipment (GFE).
- d. Government actions required.
- e. Schedule, to include major tasks, milestones, and deliverables. Planned and actual start dates and planned and actual completion dates shall be provided for each schedule entry.
- f. Any other information pertaining to the execution of the task as requested by the Government PM or COR.

3.2.3 Program Documentation Management

The Contractor shall create and maintain a library of files (Knowledge Base) that document the processing of work products, deliverables and other associated information pertaining to actions performed under this task. The Contractor shall maintain the library within the Government-designated electronic repositories. Examples of files include, but not limited to, the following:

- a. Documentation providing traceability and rationale for the contractor's technical program decisions.
- b. The latest version of all specifications, drawings, databases, and software that define or implement the system.
- c. Detailed Standard Operating Procedures (SOPs)
- d. All configuration management documentation.
- e. Final documentation and software packages utilized in every application release.

- f. Program work products and deliverables.
- g. Updates related to reporting artifacts (including and not limited to data dictionary changes impacts from enhancements) to reporting team and downstream data consumers.

The Contractor shall ensure government access to all records. Upon completion of the task, the Contractor shall turn over all such records to PB-ITS in approved formats.

3.2.4 Communications and Meeting Support Services

The Contractor shall provide the following communication support services to maximize IT efficiency and stakeholder satisfaction throughout the PB-ITS:

1. *Strategic Communications*: proactively deliver an ongoing campaign to identify IT tasks which can be solved by the end user without help desk support; draft communication (e.g. emails, web pages, quick guides) to guide users through self-help steps; and promote that content via email and live training sessions.
2. *Operational Communication*: develop and deliver communications about operational status of systems and tools. Subject matter shall include real-time and future system outages, system updates, and other end-user-targeted information.
3. *Data Analytics*: provide frequent reviews of data such as help desk tickets, web analytics, surveys, inventory etc. to determine audience needs and deliver information for management to achieve strategic goals. These reviews shall include a report and recommendations for application improvement. Assist with implementing those recommendations and tracking their impact.
4. *Meeting Support*: Attend and support meetings, briefings, etc. on behalf of or in support of the application.

3.2.5 Contingency Plan

The contractor shall develop and maintain a Contingency Plan (CP) for the full restoration of application functionality in the event of an unforeseen catastrophic technology event. Generally part of a larger organization-wide Continuity of Operations (COOP) event, the application is expected to become fully functional without consultation of or intervention by O&M staffing.

The CP must be sufficiently detailed that a restoration could be successfully performed in two isolated scenarios: 1) from virtual machine snapshots and 2) from file backups alone (no snapshots available).

The contractor shall participate in Contingency Planning exercises as requested by the Government. This shall include creating and updating documentation upon request, participating in exercises, and providing support as requested by Government groups.

3.3 Task 3: Enterprise Quality Program (EQP)

The Contractor shall follow the Enterprise Quality Program (EQP) for Public Buildings Information Technology Services (PB-ITS) that provides the foundation for increasing and controlling the quality of IT products and services to PBS. The EQP incorporates sound CMMI processes that will ensure products and services are on time, within budget, and meet the requirements of our PBS customers. The EQP has three distinct areas: Project Management,

Quality Assurance and Independent Verification and Validation. PB-ITS continuously works to improve its processes in order to deliver quality products and services the first time.

3.3.1 Documentation

The Contractor shall follow the EQP documentation standards, such as may be found post-award at <https://portal.pbs.gsa.gov/pbs/group/portal/appops>. All required deliverables shall be produced in accordance with EQP requirements, GSA PB-ITS EQP Configuration Management Plan (refer to **Attachment C**), as well as all GSA Security standards.

Documentation shall be included as artifacts for each deliverable consistent with the EQP processes for each given release. Releases may require a complete set of installation scripts, installation files, configuration files, test scripts, Data Dictionary, Entity Relationship Diagrams, Functional Requirements, Installation Plan, Operations Manual, Release Notes, System Design, System Security Plan, Test Plan, User Manual and other supporting documentation.

All documentation is expected to be accurate in content, context, grammar and spelling.

3.3.2 DevOps

PB-ITS has implemented DevOps processes and tools for the automation of application installations. This solution is a collection of open source and standards-based tools currently using JIRA as the front end for project managers and developers with Jenkins and Ansible “under the hood.” The current tool set includes Jira, Jenkins, Ansible, Git, Selenium, and Artifactory.

Releases managed through the DevOps process will be required to provide certain artifacts to ensure a compliant build. Those currently include Source Code, Executables and Build Scripts. Build scripts can currently be written using Ansible, Bash, or Powershell.

The Contractor shall provide necessary artifacts to release this application through the DevOps process and shall comply with GSA IT [DevSecOps Guide](#) and all other GSA policies and guidance. The Contractor shall participate in inter-disciplinary meetings hosted by DevOps. The Contractor shall attend training, as requested, in order to attain/maintain efficiency in DevOps tools.

The Contractor’s application development methodology and operational processes must conform to PB-ITS DevOps processes.

3.3.3 Software Code Quality

As part of its continuous delivery improvement, PB-ITS will be implementing a software code review process and quality analysis. The Contractor shall be expected to adhere to PB-ITS application coding standards as defined. The Contractor shall adhere to the standards for delivery and create highly maintainable code that is free of critical quality defects.

PB-ITS may also employ Software Code Quality (SCQ), an analysis that will evaluate application risk around robustness (stability, resilience), performance, architectural security,

transferability, system maintainability (sustainment) and changeability of applications as they evolve. These measurements are based upon industry best practices and standards related to complexity, programming practices, architecture, database access and documentation. They are derived from standards bodies such as the International Organization for Standardization (ISO), Software Engineering Institute (SEI), Object Management Group (OMG) and the National Institute of Standards and Technology among others.

3.4 Task 4: Tier II-III Helpdesk Services

The Contractor shall provide Tier II-III Customer Support Services for the CFR application. The Contractor will also be responsible for logging of trouble tickets, user inquiries, enhancements, and database change requests.

Helpdesk support tiers are defined as:

- Tier I (provided by GSA IT/PB-ITS): GSA will provide simple local and phone support. At this level, the customer may possess a broad understanding of the Central Facility Repository and may not understand the inner workings. In this case, the specialist would identify a customer's needs and provide tips on how to manage a problem. These solutions will be documented and maintained in the Knowledge Base. Also, log-in issues are resolved here. When a tier-1 support team member is not able to resolve the issue, they classify the problem and pass it on to the appropriate tier-2 specialist.
- Tier II (required of the vendor under this BPA call): involves technical knowledge and is staffed by technicians who have troubleshooting capabilities beyond the tier-1 support. If the issue is an existing one, the tier-II specialist will research a solution or a workaround. In cases where there is no solution, it should be logged as an open bug. If a customer experiences a new issue, further analysis has to be done to see if it can be resolved. If the tech cannot fix the problem at this tier, the problem goes to tier-III.
- Tier III (required of the vendor under this BPA call): This tier engages the technical expertise of those involved in development. This is where the complex issues and any outstanding issues that were escalated in the previous tiers are addressed. Usually, the work performed at this tier results in a system release.

3.4.1 Help Desk

The Contractor shall utilize the GSA IT Service Desk ticketing system, currently ServiceNow, to address all requests for application assistance. The Contractor is expected to provide sufficient written resources for Tier I Help Desk personnel to resolve frequent requests without escalation.

A designated Central Facility Repository Team support email group shall be established and maintained. The Contractor shall assist in troubleshooting application specific issues and supporting ad-hoc urgent requests such as Federally-designated disaster relief efforts.

Metrics shall be kept and reported regarding the number of Help Desk referrals during the month, capturing details such as user regions, types of requests, times to respond, times to resolve, and overall status including unresolved referrals. The metrics shall be submitted as part of the monthly report. Success of issue resolution shall be coordinated with the Government PM, making every effort to resolve each issue prior to closing each ticket. Every ticket should

ultimately resolve into one of the following resolution statuses:

- Issue Fully Resolved
 - The issue was fully resolved by an existing policy directive, personalized support, standard operating procedure (SOP) or other pre-existing solution.
- New Issue – No Enhancement Needed
 - The issue was not previously documented and was fully resolved by personalized support. No workaround or application patch is needed.
 - The issue must be documented as a new SOP, approved by the Government PM and then communicated to the Help Desk.
- New Issue - No Work-Around Available
 - The issue was not previously documented and potential solutions were fully explored. No work-around was found to fully address the issue.
 - The Enhancement Log must be updated in order to capture the details of the issue and plan for a full resolution in the future.
- New Issue - Work-Around Communicated
 - The issue was not previously documented and a work-around was developed to fully address the issue.
 - The Enhancement Log must be updated in order to capture the details of the issue, the work-around that was implemented and plan for a full resolution in the future.
 - The work-around must be documented, approved by the Government PM and then communicated to the Help Desk.
- Issue Abandoned
 - The resolution effort was abandoned due to events beyond the scope or control of the team. An example might be an issue awaiting an application enhancement that is no longer necessary due to a security directive that prohibits the enhancement.
 - The abandonment must be documented, approved by the Government PM and then communicated to the Help Desk.

3.4.2 Training

The Contractor shall hold formal training sessions after each major application release. Training sessions should cover new, removed or changed features in the application and related business processes. Training sessions should be well organized and thoroughly explore the scheduled topic(s), while providing sufficient time for question/answer time.

3.5 Task 5: Quality Assurance

In all contexts, the expectation is that the Contractor will attain excellence in all performance areas of the BPA call.

3.5.1 Quality Scorecard

The Contractor shall develop and maintain a Quality Scorecard by which support services may be measured. Metrics tracked and reported should minimally include:

- Activity
 - Management Requests – volume of tasks originating from the application management community
 - User Support – volume of tasks originating from the user community

- Technology Support – volume of tasks originating from the technology stack
 - Internal Support – volume of tasks originating from the contracted team members for the improvement of the platform experience
- Performance
 - Management Requests – how well the needs of management requests are met (e.g. reporting, one-off requirements)
 - User Support – how well the needs of end users are met (e.g. personalized support, Help Desk, enhancements)
 - Technology Support – how well the needs of the technology stack are met (e.g. stability, recovery, performance, security, functionality)
 - Internal Support – how well the needs of internally identified needs are met (e.g. improved code efficiency, improved user experience, extraordinary measures)
 - Team Utilization – effectiveness of work distribution among contracted team members
- Quality
 - First-Time Right Efforts – how often the first effort yields a completely satisfactory solution
 - Demand Accuracy – how often deadline goals are actualized
 - Goal Accuracy – how often estimated goals are actualized
 - Customer Satisfaction Index* – how well various business groups are satisfied with application performance and support. The mechanisms for the metric should provide a means of both objective and subjective inputs, allowing for perceptions to be captured along with factual performance.
 - Business Need Index* – how well various business groups are satisfied with application functionality to meet the business needs. The mechanisms for the metric should provide a means of both objective and subjective inputs, allowing for perceptions to be captured along with factual performance.

* Government-supplied metric

The Contractor shall collaborate with the Government PM and COR regarding Performance and Quality metrics. Every attempt should be made to reach consensus agreement of the values for these metrics.

In cases where the scorecard would indicate less than optimal ratings or consensus between the Contractor and Government cannot be reached, explanations of factors influencing ratings may be necessary.

3.6 Task 6: Security Compliance

Contractors entering into an agreement for services to the General Services Administration (GSA) and/or its Federal customers shall be contractually subject to all GSA and Federal IT Security standards, policies, and reporting requirements. The Contractor shall meet and comply with all GSA IT Security Policies and all applicable GSA and NIST standards and guidelines, other Government-wide laws and regulations for protection and security of Information Technology.

See **Attachment A**.

3.7 Task 7: Enhancement Support

Enhancements are significant modifications to the application that add functionality or features to the application. Enhancements do not include configuration changes, technology upgrades, security or application patches or actions that are required to ensure the application remains operational.

3.7.1 Technical Roadmap Subtask

The Contractor shall provide technical guidance in assisting the Government to understand the impacts and requirements of potential changes to the application.

The Contractor shall draft a technical roadmap for the application, combining program, application and technical requirements. This summary document shall include a system configuration section that includes all of the components the application is required to run and the operating environment in which it is expected to perform, including Operating System, Database, Middleware, Technical Platforms (if any) and ancillary supporting applications, modules, or software packages. For each component a transition plan including rationale for retirement and proposed retirement dates for support shall be included when known. The technical roadmap shall document recommended time-frames to ensure all system components remain fully licensed and supported.

3.7.2 Enhancements Subtask

The Contractor shall manage an Enhancements Log of suggested application requirements, features and other types of requests to improve the application platform. Contributions may come from many sources, such as the application user community, Government PM, GSA management and contracted application developers.

The log shall constitute a prioritized list of tasks related to the enhancement of the application. The Contractor shall engage the Government to establish priorities and collaborate on the estimated size of each task. The log shall include proposed requirements and user stories to describe elemental tasks and shall document task objectives, user impacts and acceptance criteria. Tasks may be rolled into containers such as epics and themes as they address objectives of the task. Management of the log shall ensure that stories, descriptions, personas, estimates and test cases meet the objectives of the task.

From time to time, an Analysis of Alternatives (AOA) may be requested in support of one or more proposed enhancements. The AOA should clearly show an analytical comparison of suitability, risk and cost associated with available and Government suggested solutions.

3.7.3 Work Estimates Subtask

The Contractor shall develop estimates based on the level of detail available. The Government may request any one of the following types of estimates:

- Rough Order of Magnitude (ROM) - a high level idea, including the best-that-we-know expectation for the enhancement or its components.
- Level of Effort (LOE) - a comparable estimate based on previous work completed

- Impact Analysis (IA) - the estimate examining more specific details or proposed solutions, including their implementation and downstream impacts.

The following table describes the difference between each estimate. Also included are the level of accuracy expected for each estimate, including the allotted times for development of an estimate.

Table 3.7.2 - Estimate Characteristics

Rough Order of Magnitude (ROM)	Level of Effort (LOE)	Impact Analysis (IA)
Due in 2-3 days	Due in 3-7 days	Due in 5-10+ days
Variance: 50-100%	Variance: 25-75%	Variance: 5-10%
<ul style="list-style-type: none"> ● High level, describes input / data / system interfaces ● Describes effort in term of high, medium or low in terms of: <ul style="list-style-type: none"> ○ Hours ○ Cost ○ Durations ○ Resources required ● Change in schedule to implement 	<ul style="list-style-type: none"> ● Analogous or historical estimates ● Bottom-up / top-down estimates ● Describe the changes impacted: <ul style="list-style-type: none"> ○ Database ○ Interface / workflows ○ Screens / reports ● Change in schedule to implement 	<ul style="list-style-type: none"> ● Comprehensive analysis of: <ul style="list-style-type: none"> ○ Events ○ Business activities ○ Downstream impacts ● Proposed solution(s) ● Impact to the system / interfaces

Once the COR finalizes the enhancement requirements for formal submission to the Government Contracting Officer (CO), the CO will issue an Enhancement Notice and Request for Quote (RFQ) to the Contractor. In response to the RFQ, the Contractor will have 10 business days to submit a System Impact Plan/Software Development Plan (SIP). The SIP must provide details of the proposed technical solution, a description of the impact to the overall system, proposed milestone schedule, and the labor mix utilizing the labor categories and rates contained in the PB ITS Blanket Purchase Agreement (BPA). The Government shall review the plan and negotiate any changes required. Upon approval of the Plan and agreement on price, schedule and any other terms and conditions, the Government will issue a modification to the BPA Call, establishing a sub-Contracting Line Item Number (CLIN) and providing funding. Enhancements will be negotiated as firm, fixed price sub-CLINs to the greatest extent possible.

4.0 Labor Requirements

The Contractor shall dedicate personnel who exhibit a professional history of implementing technical solutions and effectively communicating verbally and in writing, including the use of email, word processing, spreadsheet, and presentation tools. Technical writing skills are necessary to support specific areas of the requirements in this BPA Call.

The Contractor shall identify personnel – including one or more designated Key Personnel – to execute this task with a professional history of working on technical teams. All team members should exhibit a successful history of working on technical projects for at least three (3) consecutive years. Key personnel shall be solely dedicated to this BPA Call. Key personnel shall regard this BPA Call as their highest priority at all times.

The Contractor shall provide resumes demonstrating the knowledge, skills and abilities described in the BPA Labor categories for all proposed personnel. The Offeror must have 50% of the proposed personnel with an active HSPD-12 clearance or favorable determination by the end of the transition period.

All applicable BPA Labor categories can be utilized pursuant to the requirements of the BPA Call. However, not all BPA Labor categories are required for this task and not all Labor categories need be fully utilized.

Once the BPA Call commences, no new personnel shall work under this BPA call without prior resume submission and verification by the CO.

5.0 Deliverables

Deliverables acceptance will be subject to Government acceptance testing to include required functionality and review of documentation. The Government will review and comment on all draft and deliverables within fifteen (15) working days of receipt, unless specified differently below. Acceptance or rejection of deliverables shall be made by the Contract Officer Representative (COR) in writing, giving the specific reason(s) for the rejection. The Contractor shall correct the rejected deliverable and return it on the date specified by the COR. While deliverables are under review, Contractors will continue work on follow-on activities to maintain the project schedule.

Some of the required deliverables follow Government mandated formats.

Section	Deliverable Description	Delivery Schedule
3.1.1	Release Packages	With each release
3.1.2	Defect Root Cause Analysis (RCA) Report	As requested
3.2.1	Program Management Plan (PMP)	Twice annually, 6 months apart
3.2.2	Monthly Status Report (MSR)	Monthly, by the 3 rd business day
3.2.3	Program Documentation Management	Continuously
3.2.4	Strategic Communications	Continuously
3.2.4	Operational Communications	As requested
3.2.4	Data Analytics Report	Twice annually, 6 months apart
3.2.4	Meeting Communications	As requested

3.2.5	Contingency Plan (CP)	Annually and with each release
3.3.1	Enterprise Quality Management documentation	With each release and as requested
3.3.2	DevOps Artifacts	With each release and as requested
3.3.2	Application Code	With each release and as requested
3.4.1	Help Desk Referrals Report	Monthly, by the 3 rd business day
3.4.2	Training Materials	With each release
3.5.1	Quality Scorecard	Monthly, by the 3 rd business day
3.6	Security Responses	As requested
3.6	US-Cert Incident Reporting Exercise	As requested
3.7.1	Technical Roadmap	Twice annually, 6 months apart
3.7.2	Enhancements Log	Continuously
3.7.2	Analysis Of Alternatives (AOA)	As requested
3.7.3	Work Estimates	As requested
7.1.1	Phase-In Transition Plan (draft)	Once, submitted with quote
7.1.1	Phase-In Transition Plan (final)	Once, by the 3 rd business day after draft commentary is conveyed from the COR
7.2.1	Phase-Out Transition Plan (draft)	Once, 60 calendar days prior to contract completion or termination
7.2.1	Phase-Out Transition Plan (final)	Once, by the 3 rd business day after draft commentary is conveyed by the COR
10.2	Employee Roster	Once, by the 3 rd business day after award
10.2	Employee Contractor Information	Once, by the 3 rd business day after

	Worksheets	award
11.1	Invoices	As required, no later than the 10th calendar day of the month

The Contractor shall convey the deliverables specified in Section 5 (and any additional deliverables that the Contracting Officer may require in writing) on dates specified therein, or on such revised dates as the Contracting Officer may specify. The Government shall have unlimited rights in all such deliverables in accordance with the FAR clause at 52.227-14(b)¹, which is hereby incorporated by reference into this contract (task order). The Contractor may mark the deliverables to indicate its authorship, provided, however, that it shall not include any markings inconsistent with the Government's unlimited rights. The Contractor understands that the Government may release any deliverable in response to a Freedom of Information Act (FOIA) request, subject to any right to object or to request redactions that the Contractor may otherwise have under the Act or under applicable agency regulations.

All deliverables in printed or other media forms containing personally identifiable information (PII) and/or sensitive but unclassified (SBU) information shall follow applicable policies including General Services Administration Document Security for Sensitive But Unclassified Building Information (PBS P 3490.2)². The Contractor shall ensure and deliver the application is designed to function in accordance with applicable Federal Information Processing Standards Publication (FIPS PUB) 140-2³ and all applicable annexes or subsequently approved federally recognized policy for the protection, operation and/or delivery of Federal information technology systems.

¹ FAR 52.227-14(b) URL: https://www.acquisition.gov/far/html/52_227.html

² PBS P 3490.2 URL: <https://www.gsa.gov/portal/getMediaData?mediaId=202203>

³ FIPS PUB 140-2 URL: <https://csrc.nist.gov/publications/fips/fips140-2/fips1402.pdf>

6.0 Place and Period of Performance

Work is expected to be performed from the contractor's work location or virtually within the Continental United States. Core hours will generally be 7:30AM through 4:00PM Eastern Time, Monday through Friday, excluding Federal holidays. All contract personnel assigned to this contract are expected to conform to customer Agency normal operating hours.

Note: Help Desk support for the CFR is expected to be available between core application hours of 7:30AM and 6:00PM Eastern Time, covering the general core hours in all major time zones.

The Period of Performance (PoP) will be one (1) base year, inclusive of a 30-day transition period, and four (4) option years, each with a duration of twelve (12) months. The anticipated period of performance will be August 15, 2018 through August 14, 2023.

Phase-In Period*	08/15/2018 – 09/14/2018
Base Year	09/15/2018 - 08/14/2019
Option Period 1	08/15/2019 - 08/14/2020
Option Period 2	08/15/2020 - 08/14/2021
Option Period 3	08/15/2021 - 08/14/2022
Option Period 4	08/15/2022 - 08/14/2023

6.1 Telework / Operating Status

In the event it becomes necessary for a contractor to be embedded at a GSA building to support CFR, this telework policy shall be applied.

GSA may temporarily allow Contractor employees working in an Agency worksite to be in telework status. The primary period may occur when the Office of Personnel Management (OPM) has issued an updated operating status announcement of **"FEDERAL OFFICES ARE CLOSED – EMERGENCY AND TELEWORK-READY EMPLOYEES MUST FOLLOW THEIR AGENCY'S POLICIES."**

A **telework-ready** Contractor is one providing services at a GSA agency worksite and the Contractor:

- is eligible to telework; and
- has the IT tools, equipment, and training necessary to telework.

Non-telework ready Contractors or when a Contractor chooses not to telework will be on leave without pay.

Telework-ready Contractors who are scheduled to perform telework or who are required to perform telework on a day when Federal offices are closed must telework the entire workday, take unscheduled leave, or a combination of both.

7.0 Phase-In/Phase-Out Overview

The Phase-In/Phase-Out process is defined as a smooth transition from one Contractor to another, in order to maintain the program's integrity required under this and the previous agreements.

The Contractor shall take all actions necessary to achieve a successful transition from the incumbent Contractor and to the follow-on Contractor.

7.1 Phase-In

The Contractor shall follow the Government approved phase-in transition plan. The Contractor shall expect to attend an orientation session at or before the start of the award. This session may be virtual or at a central location.

Although the contract's anticipated period of performance begins on August 15, 2018, no work shall commence prior to the award date. The Phase-In Process is intended to be August 15, 2018 to September 14, 2018, or as specified by the CO.

7.1.1 Phase-In Plan

The Contractor shall develop a detailed Draft Phase-In Plan detailing the phase-in approach, staffing, activities, risks, and schedule as part of their quote to ensure business continuity with no disruption and no impact to existing systems. The COR will provide the Contractor feedback on the phase-in plan and allow the Contractor to make revisions as needed. The Contractor shall resubmit the Final Phase-In Plan three (3) business days after COR provides feedback to the Contractor.

The Contractor shall use the time between contract award and contract start to prepare for and achieve full operational status on the first day of required services. To accomplish this level of operational readiness, the Contractor shall implement the Final Phase-In Plan, which should be submitted as a draft as part of the technical proposal in response to the solicitation.

Site access shall be permitted during phase-in to the extent that it does not interfere with the operation of the Incumbent Contractor. The Contractor shall coordinate with the COR for site access permission.

The phase-in plan shall address no less than the following:

- Receipt of the applications
- Inventory of all outstanding maintenance requests/enhancements/issues
- Manpower requirements: personnel staff-up to full staff hand-off with the incumbent Contractor and service levels during phase-in
- Personnel recruitment
- Personnel orientation
- Site familiarization
- Material Equipment On-hand levels verification and validation
- Assumption of responsibility and accountability of Government furnished property

- Telephone Services
- Contractor provided supplies and equipment
- Timelines

7.2 Phase-Out

The Contractor shall remain fully compliant in all contractual obligations during the period of time leading up to the contract's expiration or termination.

7.2.1 Phase-Out Plan

The Contractor shall submit to the Government a phase-out plan sixty (60) calendar days before the contract's completion or termination. The phase-out plan shall address not less than the following:

- Procedures for retaining the staffing levels necessary to maintain required services through the day of the contract's expiration or termination.
- Procedure and responsibilities for performing physical inventory and reconciliation of Government Furnished Equipment (GFE) and Government Furnished Information (GFI).
- Procedure and responsibility for reconciling and certifying material and equipment on-hand levels and accuracy.
- Updates to/final submissions of any documents that are in draft form or continuously updated.

The Contractor shall coordinate its phase-out activities with the Incoming Contractor to effect a smooth and orderly transition at the end of the contract's period of performance. The Contractor shall provide on-the-job training for the Incoming Contractor personnel, as needed by the Incoming Contractor, except for IT training which shall be provided by the Government. The Contractor shall remove all Contractor-owned property from the Government space or facility by close of business on the last day of the contract.

8.0 Travel

If travel is required based on this contract, the Government will negotiate travel expenses and authorize the travel in writing prior to the occurrence of travel. The Government will reimburse Contractor for all travel expenses in accordance with the Federal Travel Regulation (FTR). Travel expenses shall be submitted on incident basis.

Local travel is not reimbursable. Local travel shall be considered within fifty (50) miles of the GSA Headquarters and within fifty (50) miles from each Regional Office Building (ROB).

9.0 Government Furnished Equipment (GFE) / Government Furnished Information (GFI)

Government Furnished Equipment (GFE) or Government Furnished Information (GFI) will be provided to the Contractor during the period of performance of the contract, under the following conditions:

- a. Use of the GFE and GFI is for the sole purpose of completing the requirements of this contract
- b. The contract employee has received a pre-favorable background investigation determination/adjudication; expected to result in a final favorable determination/adjudication, or
- c. The contract employee has already received a final favorable background investigation determination/adjudication.

Note: GFE may include virtual desktop access provided by GSA and does not necessarily constitute the distribution of hardware to the Contractor. Access to the GSA network, whether direct or through other means, such as the GSA Virtual Private Network (VPN), is contingent upon each contract employee having successfully received a pre and final favorable background investigation.

The estimated GFE is two (2) Virtual Desktops or laptops as determined by the Government.

The anticipated GFI includes but is not limited to system documentation and the GSA PB-ITS EQP Configuration Management Plan (Attachment C).

10.0 Security

Contractors entering into an agreement for services to the General Services Administration (GSA) and/or its Federal customers shall be contractually subject to all GSA and Federal IT Security standards, policies, and reporting requirements. The Contractor shall meet and comply with all GSA IT Security Policies and all applicable GSA and NIST standards and guidelines, other Government-wide laws and regulations for protection and security of Information Technology.

The Contractor shall comply with GSA administrative, physical, and technical security controls to ensure that all Government's security requirements are met. In addition, all Contractor personnel shall adhere to the GSA PBS's rules and regulations. The Contractor is responsible for addressing any issues or concerns raised by PBS within five (5) workdays.

10.1 Homeland Security Presidential Directive (HSPD-12) and Background Investigations Requirements

For any Contractor personnel performing work under this SOW who shall require access to GSA IT applications, systems, or data, the Contractor(s) shall comply with the Homeland Security Presidential Directive-12 (HSPD-12) security clearance process. This means first obtaining a

fingerprint clearance, which typically takes 3-4 weeks. At that point, the Authorizing Official (AO) can grant limited access on a case by case basis. Next, a preliminary favorable adjudication of their National Agency Check with Inquiries (NACI) background investigation shall be received. This process can take 1 to 2 months. Only when a full NACI adjudication is received shall full access to applications, systems and data be granted. This process usually takes four (4) to eight (8) months, though it could take as many as 12 months.

The Contractor(s) shall submit the necessary paperwork to conduct a National Agency Check with Inquiries (NACI) background investigation for each proposed person prior to working on the contract. Contractor(s) shall not be granted access to a GSA facility or to any GSA IT system prior to a favorable response to the fingerprint portion of this background investigation. An individual Contractor's failure to return satisfactory results from the background investigation shall result in immediate removal of that Contractor.

Higher levels of clearance shall also be required depending on the level of trust required to perform specific duties, perform a specific task or access specific data. For any Contractor who shall have access to Sensitive but Unclassified (SBU), financial transactions, Personally Identifiable Information (PII), or any other data deemed to require a higher level of trust, a Tier 2S clearance, also known as Minimum Background Investigation (MBI), shall be required.

The Central Facility Repository contains Sensitive but Unclassified (SBU) information and requires Tier 2S/MBI clearance for all personnel accessing the system.

The Contractor shall be required to fund their employees' background investigation and security clearance processes; the Government will not provide funding for these requirements.

10.2 Contractor Staff Reporting Requirement

The Contractor shall maintain a Contractor Staff Roster and be made available to the Contract Officer / Contract Officer Representative within 2 business days of written request. The roster shall minimally contain the full name of each active employee assigned to this task and indicate the required Background Investigation Level for each Contractor individual in accordance with their submitted proposal.

Contractor Responsibilities:

The Contractor shall screen all personnel supporting the Central Facility Repository to ensure they attain and maintain the appropriate clearance, and are able to clearly read, write, speak and understand the English language.

The Contractor shall bear the expense of obtaining background investigations and clearances.

Within 3 business days after award, the Contractor shall provide a roster of Contractor and Subcontractor employees to the COR to begin their background investigations. At the time the roster is provided, the Contractor shall provide a completed Contractor Information Worksheet (CiW). This document is updated frequently. For reference the Contractor may refer to the COR and or the GSA Insite Page <https://insite.gsa.gov/portal/content/653838> (internally accessible). The roster shall contain the Contractor's Full Name and individual clearance requirement.

The Contractor should coordinate the location of the nearest GSA fingerprinting office through the COR. Only electronic fingerprints are authorized.

The Contractor personnel will receive an email notification from the Security and Investigation Center (SIC), through the Electronics Questionnaire for Investigations Processes (e-QIP) identifying the website link that includes detailed instructions regarding completion of the investigation documents (SF85, SF85P, or SF86). The Contractor personnel shall submit all required information related to their background investigations utilizing the Office of Personnel Management's (OPM) Electronic Questionnaire for Investigations Processing (e-QIP).

The Contractor is to certify and release the e-QIP document, print and sign the signature pages, and send them following the instructions provided by e-QIP.

The Contractor shall be responsible for the actions of all personnel provided to work for the Government under this contract. In the event that damages arise from work performed by Contractor-provided personnel, under the auspices of this contract, the Contractor shall be responsible for all resources necessary to remedy the incident.

A Contractor may be granted unescorted access to GSA facilities and/or access to GSA Information Technology resources (network and/or protected data) with a favorably adjudicated clearance consummate with the access required. There is no waiver or temporary access to Government-furnished information without the required favorably-adjudicated clearance.

The investigative history for Contractor personnel working under this contract must be maintained in the database of the Office of Personnel Management (OPM).

The Contractor, when notified of an unfavorably adjudicated background investigation of a Contractor employee as determined by the Government, shall withdraw the employee from consideration in working under the contract.

Failure to comply with the Contractor personnel security investigative requirements may result in termination of the contract for default.

10.3 Privacy Act

Work on this contract may require personnel to have access to private information. Personnel shall adhere to the Privacy Act, Title 5 of the U.S. Code, Section 552a and applicable agency rules and regulations.

10.4 Protection of Information

The Contractor shall be responsible for properly protecting all information used, gathered, or developed as a result of work under the contract. In addition, the Contractor shall protect all government data, equipment, or information by treating the material as sensitive. SBU information, data, and/or equipment shall only be disclosed to authorize personnel in accordance with agency policy.

The Contractor shall ensure that appropriate administrative, technical, and physical safeguards are established to ensure the security and confidentiality of information, data, and/or equipment is properly protected. When no longer required, this information, data, and/or equipment shall be returned to Government control, destroyed, or held until otherwise directed.

Items returned to the Government will be hand carried or mailed to the COR using certified mail. The Contractor shall destroy unneeded items by burning, shredding, or any other method that precludes the reconstruction of the material.

10.5 Non-Disclosure Agreements

If determined to be required by the CO, the Contractor and/or their personnel shall be required to sign non-disclosure agreements (NDAs).

10.6 Organizational Conflict of Interest

FAR Subpart 9.5, Organizational Conflicts of Interest, applies. If the CO determines that an offeror may have a potential organizational conflict of interest, then the Contractor shall be required to submit a mitigation plan and, if awarded, comply with any procedures put in place to avoid or mitigate conflicts.

11.0 Administration

11.1 GSA Electronic Invoicing

All invoicing shall be done electronically. Password and electronic invoice access shall be obtained through VCSS, <https://vcss.ocfo.gsa.gov>. Invoices shall be itemized as per the specific line items utilized during that billing period.

Billing and payment shall be accomplished in accordance with this clause. The Contractor shall have the invoice certified by the client representative. The Contractor's invoice shall be for no less than one month. The Contractor shall invoice only for the hours, travel, and/or unique services ordered by GSA and actually used in direct support of the project.

A copy of the invoice shall be submitted via email to the Government PM, COR and CO (or designated contract specialist).

Failure to comply with the procedures outlined above shall result in your payment being delayed.

The Contractor shall submit a GSA Form 1142-Release of Claims with submission of the final invoice at the end of the period of performance. A copy of the form should be sent via email to the Contracting Officer identified in Block 26A of the award document (GSA Form 300) and to the Contract Specialist and COR identified as the Government POCs in this SOW.

11.2 Inspection and Acceptance

The Government will have fifteen (15) business days to complete the review of each deliverable and accept or reject the deliverable by giving written notice. When the Government fails to complete the review within the review period, the deliverable shall become acceptable, unless an extension of the review period is requested in writing and mutually agreed upon.

In the event of rejection of any deliverable, the Contractor shall be so notified in writing by the Government PM or CO, giving the specific reason(s) for the rejection. The Contractor shall have five (5) business days to correct the rejected deliverable, unless an extension of the review period is requested in writing and mutually agreed upon, and return it to the Government PM. The Contractor shall be allowed one (1) resubmission of deliverables.

11.4 Cancellation of Orders

The Government has the right to cancel BPA Calls if the requirement is eliminated, changed, or no longer needed. The Government will notify the BPA Holder, in writing, thirty (30) calendar days prior to the stop work date.

11.5 Unauthorized Commitment

The Government PM or any other client representative is not authorized to change any of the terms and conditions of the resultant BPA Calls. Changes, if any, shall be made by the CO only.

11.6 Personal Services

The Government has determined that in order to satisfy the requirements in this SOW the use of a PBS BPA is in the best interest of the Government, economic and other factors considered, and this BPA is not being used to procure personal services prohibited by the Federal Acquisition Regulation (FAR) Part 37.104 titled "Personal Services Contract."

11.7 FAR/ GSAM Clauses

The following FAR Clauses are made part of this procurement:

52.217-5 EVALUATIONS OF OPTIONS (JUL 1990)

Except when it is determined in accordance with FAR 17.206(b) not to be in the Government's best interests, the Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. Evaluation of options will not obligate the Government to exercise the option(s).

52.217-8 OPTION TO EXTEND SERVICES (NOV 1999)

The Government may require continued performance of any services within the limits and at the rates specified in the contract. These rates may be adjusted only as a result of revisions to prevailing labor rates provided by the Secretary of Labor. The option provision may be exercised more than once, but the total extension of performance hereunder shall not exceed six months. The CO may exercise the option by written notice to the Contractor within thirty calendar days prior to contract expiration.

52.217-9 OPTION TO EXTEND THE TERM OF THE CONTRACT (MAR 2000)

- (a) The Government may extend the term of this contract by written notice to the Contractor within ten calendar days before the contract expires; provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least thirty calendar days before the contract expires. The preliminary notice does not commit the Government to an extension.
- (b) If the Government exercises this option then the extended contract shall be considered to include this option clause.
- (c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed five (5) years.

**52.204-14 SERVICE CONTRACT REPORTING REQUIREMENTS
(JAN 2014)**

(a) Definition.

First-tier subcontract means a subcontract awarded directly by the Contractor for the purpose of acquiring supplies or services (including construction) for performance of a prime contract. It does not include the Contractor's supplier agreements with vendors, such as long-term arrangements for materials or supplies that benefit multiple contracts and/or the costs of which are normally applied to a Contractor's general and administrative expenses or indirect costs.

(b) The Contractor shall report, in accordance with paragraphs (c) and (d) of this clause, annually by October 31, for services performed under this contract during the preceding Government fiscal year (October 1–September 30).

(c) The Contractor shall report the following information:

- (1) Contract number and, as applicable, order number.
- (2) The total dollar amount invoiced for services performed during the previous Government fiscal year under the contract.
- (3) The number of Contractor direct labor hours expended on the services performed during the previous Government fiscal year.
- (4) Data reported by subcontractors under paragraph (f) of this clause.

(d) The information required in paragraph (c) of this clause shall be submitted via the internet at www.sam.gov. (See SAM User Guide). If the Contractor fails to submit the report in a timely manner, the contracting officer will exercise appropriate contractual remedies. In addition, the Contracting Officer will make the Contractor's failure to comply with the reporting requirements a part of the Contractor's performance information under FAR subpart 42.15.

(e) Agencies will review Contractor reported information for reasonableness and consistency with available contract information. In the event the agency believes that revisions to the Contractor reported information are warranted, the agency will notify the Contractor no later than November 15. By November 30, the Contractor shall revise the report, or document its rationale for the agency.

(f)

(1) The Contractor shall require each first-tier subcontractor providing services under this contract, with subcontract(s) each valued at or above the thresholds set forth in 4.1703(a)(2), to provide the following detailed information to the Contractor in sufficient time to submit the report:

- (i) Subcontract number (including subcontractor name and DUNS number); and

- (ii) The number of first-tier subcontractor direct-labor hours expended on the services performed during the previous Government fiscal year.
- (2) The Contractor shall advise the subcontractor that the information will be made available to the public as required by section 743 of Division C of the Consolidated Appropriations Act, 2010

52.207-3 RIGHT OF FIRST REFUSAL OF EMPLOYMENT (MAY 2006)

- (a) The Contractor shall give Government personnel who have been or will be adversely affected or separated as a result of award of this contract the right of first refusal for employment openings under the contract in positions for which they are qualified, if that employment is consistent with post-Government employment conflict of interest standards.
- (b) Within 10 days after contract award, the Contracting Officer will provide to the Contractor a list of all Government personnel who have been or will be adversely affected or separated as a result of award of this contract.
- (c) The Contractor shall report to the Contracting Officer the names of individuals identified on the list who are hired within 90 days after contract performance begins. This report shall be forwarded within 120 days after contract performance begins.

12.0 Government Points of Contact

Christopher Naya
Program Manager (PM)
Public Buildings IT Services - GSA IT
819 Taylor Street
Fort Worth, TX 76102
christopher.naya@gsa.gov

Ilana Hellmann
Alternate Program Manager (APM)
Public Buildings IT Services – GSA IT
One World Trade Center
New York, NY 10007
ilana.hellmann@gsa.gov

Jon Owens
Contracting Officer's Representative (COR)
Public Buildings IT Services - GSA IT
2300 Main Street
Kansas City, MO 64108
jon.owens@gsa.gov

Christopher Naya
Alternate Contracting Officer's Representative (ACOR)
Public Buildings IT Services - GSA IT
819 Taylor Street
Fort Worth, TX 76102
christopher.naya@gsa.gov

Request for Quotes (RFQ)

13.0 Quote Submission

Contractors shall prepare and deliver technical and price quotes that shall be evaluated in determining the “best value” quote. All quotes shall be submitted via email to sharmel.lane@gsa.gov, with a copy (cc) to Bridgette.Overbey@gsa.gov by **10:00AM Eastern Time, Monday, July 16, 2018**. The price quote shall be a separate volume, .pdf attachment as well as the Excel version without formulas, from the technical volume. A minimum of four (4) electronic documents shall be submitted for this RFQ:

1. Technical narrative volume, named (Contractor’s Name) – Technical Volume
2. Price PDF narrative volume, named (Contractor’s Name) – Price Volume
3. Price Excel template document, named (Contractor’s Name) - Required Price Quote
4. Resumes, with each individual file labeled as, (Contractor’s Name) – Resume of (Individual Last Name)

Contractors may add on to the file names after this defined piece.

Large email attachments can be delayed during regular business hours. GSA has an attachment size limit of 20 MB. If this is a problem, submit as multiple emails with small attachments, or with enough time to clear the server delays. Quotes not time stamped in the receiving email inbox, at or earlier than the due date and time, will be late and not accepted.

The Technical Narrative including Resumes shall all be delivered as electronic documents and formatted to fit on 8 1/2” by 11” paper with no less than 1” margins on all four sides of each page. The Technical Narrative including Resumes together shall not exceed 40 pages. The font shall be Times New Roman and the size of all text shall not be less than 12pt. All material that is not originally authored by the Offeror (including images, tables or statements) shall credit in the original author (citation reference format is at the discretion of the Offeror).

Questions regarding the SOW or RFQ may be submitted to sharmel.lane@gsa.gov, with a copy (cc) to Bridgette.Overbey@gsa.gov by **2:00PM Eastern Time, Friday, July 6, 2018**, using the format in **Attachment D**. Responses to all Contractor questions will be emailed to all Contractors as an amendment to the RFQ by **5:00PM ET, Monday, July 9, 2018**.

14.0 Methodology for Award

Award will be based on the best value to the Government, price and other factors considered, pursuant to FAR Section 8.4.

Best value evaluation is, in and of itself, a subjective assessment by the Government of the proposed solution that provides the optimal results to the Government, price and other factors considered. Subjectivity is inherent in the process and is the cornerstone of the source selection decision. In an effort to provide insight to the ITDS BPA holders as to the decision making process of the Government, the following information is provided:

Evaluation will be made on three factors – Technical Understanding, Management Plan, and Past Performance. In the evaluation, Technical Understanding is significantly more important than Management Plan and Past Performance. Management Plan is slightly more important than Past Performance. In the evaluation, technical is significantly more important than price. While price is not as important as technical, it does have significance to the Government.

In rating the technical proposals, the vendor's technical capability and understanding of requirements will be evaluated.

For past performance, the vendor must include three references, similar in size and of this SOW, performed during the past five years. References must provide a completed evaluation to the contract office for the reference to be considered valid.

The Government will perform a price/technical trade-off analysis in accordance with the above methodology and select the offer that provides the best value. The Government intends to use the trade-off process in selecting a quote that is most advantageous. The trade-off process is a method of evaluating price and other factors as specified in the RFQ to select the offer that provides the best value to the Government. The process permits trade-offs among price and technical factors. Because the trade-off process allows award to the Contractor that provides the government with the best value, it allows the government to accept other than the highest technically rated offer and other than the lowest priced offer.

The award may be made without FAR Part 8 discussions; therefore, vendors are requested to submit quotes to the Government on the most favorable terms from a technical and price standpoint.

This procurement will be conducted in accordance with FAR 8.4. As such, debriefing as described in FAR 15.506 is NOT applicable in this instance. Vendor(s) are put on notice that only a brief explanation of the basis for the award decision shall be provided as prescribed by FAR 8.405-2(d), and only if requested in writing.

15.0 Technical Evaluation

15.1 Evaluation Factor 1: Understanding of the Requirements and Technical Capabilities

Basis of Evaluation: Offers will be evaluated to determine the soundness of their Agile approach and BIM, CAD, EDMS, browser-based development and database experience. Offeror's proposals will be reviewed to determine their ability to meet all stated requirements in a timely fashion, as defined in this document. Contractors are required to submit a technical proposal addressing the following:

- Technical and qualitative descriptions of their proposed methodology showing their understanding and capability to accomplish the objectives in this SOW
- Technical approach that will be used to address every requirement described in Section 3 of this SOW
- How the Offeror will maximize their use of the Agile Development Process

- Technical understanding and approach of the SOW to include, but not limited to:
 - Estimated level of effort
 - Estimated labor mix
 - Assumptions
 - Time requirements
- Understanding of and best practices in Agile methodologies, Alfresco EDMS and related add-ons, Oracle RDBMS, Jasper Reports, BIMserver.org, and utilizing Agile user stories to deliver value
- Quality Management Plan
- Detailed project plan including iterations. Submission of “cookie cutter” approaches will be viewed unfavorably
- Submission of preliminary Execution Schedule
- Submission of draft Phase-In Plan

15.2 Evaluation Factor 2: Management Plan

Basis of Evaluation: The Contractor shall provide a staffing plan for this SOW. GSA will allow the Contractor(s) to propose a labor mix and level of effort they feel is the best fit to this requirement, with a Firm Fixed Price contract award.

Management Plan: A concise management plan should be submitted in response to this RFQ. Contractor(s) should describe their strategies for staff recruitment, retention, quality of service and relevant training. Contractor staff is expected to receive annual training, through the Contractor(s), in order to remain up-to-date and current on IT aspects involved in this SOW.

Staffing Plan: The professional staff will also be evaluated for the labor mix and level of effort proposed in order to assess technical understanding of the requirements.

Resumes: The resumes for the Offeror’s Key Personnel will be evaluated to assess the availability and qualifications of the proposed staff, their subject matter expertise, their experience in similar projects, and their capability to fully and professionally accomplish the objectives stated herein. Resumes are limited to a total of three pages per resume. Proposed staff experience shall demonstrate how they meet all the required skills defined in Section 4 of the Statement of Work. Experience and expertise in required technologies/processes, as discussed throughout this document, will be considered favorable.

Resume Submission

The Contractor shall provide a resume for all proposed “key” personnel for consideration. All resumes shall include at least the following information:

- HSPD-12 Clearance Status
- **Employment status** [one of the following shall be indicated on the resume]
 - Current, on-board Contractor employee
 - Current, on-board employee for _____, subcontractor to Contractor
 - Commitment made between Contractor and individual, signed Commitment Letter attached

- Commitment made between _____, subcontractor to Contractor, and individual, signed Commitment Letter attached
- **Certification**
 - The following statement shall be signed by the individual of the resume: “*I hereby certify that this information is accurate to the best of my knowledge and belief.*”
 - The following statement shall be signed by the Contractor: “*I hereby certify that (Contractor Name and/or Subcontractor Name) has verified the foregoing information and it is accurate to the best of our knowledge and belief.*”

No personnel shall work on the tasks in this SOW without prior resume submission and verification by the CO.

If proposed personnel are not currently employed by the Contractor, the proposed personnel’s resume shall be accompanied by a commitment letter signed by both the individual and the Contractor. Failure to provide a signed commitment letter shall make the Contractor’s quote invalid.

Each resume shall be submitted as an individual Microsoft Word or Adobe PDF file(s) entitled **(Contractor’s Name) – Resume of (Individual Last Name)**. Each resume shall not exceed three (3) pages.

15.3 Evaluation Factor 3: Past Performance

Basis of Evaluation: Past Performance will be evaluated in two (2) ways. Contractors should include concise descriptions of three (3) past performance references, similar in size and scope of this SOW as described below, and performed during the past three (3) years using the Past Performance Questionnaire in **Attachment F**. This form must be completed fully to be considered meeting this part of the evaluation factor.

15.3.1 Step 1

The Contractor shall submit three (3) references;

- At least two (2) of the three required references shall include the Contractor as the Prime Contractor on a contract having dollar values of at least \$250,000 annually. The third reference may include the Contractor as a Prime or Subcontractor on a contract having dollar value of at least \$250,000 annually and
- Scope which includes a user community of 250 or more users.

Sufficient information should be provided to allow the Government to evaluate the reference’s applicability and confirm the completion of Step 1. The Contractors shall be held accountable for providing accurate contact information in the quote, failure to do so could result in an insufficient evaluation of the Past Performance.

The Contractors shall note that the Government will consider all information available on the Contractors’ experience and past performance, such as Government records, industry databases (e.g., Dunn and Bradstreet), and other sources. This shall include information that is in addition to that which is provided by the Contractor.

15.3.2 Step 2

Contractors are to distribute “Past Performance Questionnaire” (**Attachment E**) to all past performance references submitted in proposal. Questionnaires are to be completed by references and forwarded directly to the Contracting Officer at sharmel.lane@gsa.gov. Documentation of whom Past Performance Questionnaires were distributed to shall be included in the Offeror’s Technical volume. **Completed questionnaires must be received no later than 10:00AM Eastern Time on Monday, July 16, 2018.** The Offeror is responsible for assuring that the references are furnished and their contact information are current, complete, and accurate. It shall not be the CO’s responsibility to follow-up with references who do not respond or for whom the contact information is inaccurate.

Offerors who do not have at least one (1) “Past Performance Questionnaire” **submitted to GSA by 10:00AM Eastern Time, Monday, July 16, 2018 will be evaluated as not meeting this evaluation factor.**

16.0 Price Evaluation

This SOW will be firm-fixed-price for all activities. Price shall be separated by the Phase-In Period and Section 3.0 Services. The Contractor shall submit pricing for each task area delineated by period of performance, as outlined in the Required Price Quote Template, **Attachment G.**

GSA seeks discounts, or price reductions, from the Contractor’s SOW rates. The Contractors total SOW Call price and individual Task pricing shall be evaluated and compared, including any discounts offered by Contractors from their SOW pricing. GSA will evaluate the Contractor’s pricing for reasonableness and overall best value to the Government. Contractor’s pricing shall establish confidence for successful performance and completion of the SOW requirements.

The Contractor shall complete the attached Required Price Quote Template and shall submit the document as an individual Microsoft Excel file entitled (*Contractor’s Name*) - **Required Price Quote.**

The narrative section of the price quote shall be named (*Contractor’s Name*) – **Price Volume.**

17.0 Summary of Evaluation

The proposal font must be font face Times Roman size 12, with standard compression. Graphs and charts must use font size not less than 10. The evaluation will not consider any information on pages exceeding the page limitation or smaller than the allowed font size. A Contractor providing a cut and paste of the SOW rather than demonstrating how the firm will meet the SOW requirements will be evaluated as a deficiency for the technical evaluation factor.

Technical Evaluation	Page Limit and Submission Process	Submission Items
Evaluation Factor 1	Maximum of twenty (20) pages detailing capability and understanding of requirements	Technical <ul style="list-style-type: none"> • Quality Management Plan • Detailed project plan • Preliminary Execution Schedule • Draft Phase-In Plan
Evaluation Factor 2	Maximum of ten (10) pages. Resumes are limited to a total of three (3) pages per resume, but not subject to the page maximum for this Factor.	<ul style="list-style-type: none"> • Management Plan • Staffing Plan • Resumes
Evaluation Factor 3	Maximum of ten (10) pages	<ul style="list-style-type: none"> • 3 Past Performance references with required information • One (1) completed survey from reference but not subject to the page maximum for this Factor.
Price Evaluation	Page Limit and Submission Process	Submission Items
Price Evaluation	Maximum of five (5) pages	Price Narrative
Price Evaluation	Excel Price Template	Price

Attachments

Attachment A: Security and Privacy Requirements for IT Acquisition Efforts

GSA supplies Attachment A for informational purposes. No response is necessary in the Contractor's quote.

File attached separately in Adobe Portable Document Format (PDF).

Attachment B - GSA PB-ITS Technology Roadmap

GSA supplies the Attachment B for informational purposes. No response is necessary in the Contractor's quote.

File attached separately in Adobe Portable Document Format (PDF).

Attachment C – GSA PB-ITS EQP Configuration Management Plan

GSA supplies the Attachment C for informational purposes. No response is necessary in the Contractor's quote.

File attached separately in Adobe Portable Document Format (PDF).

Attachment D - Q&A Format Template

File attached separately in Microsoft Excel format.

Attachment E - Past Performance Questionnaire

File attached separately in Microsoft Excel format.

Attachment F - Past Performance Reference Form

File attached separately in Microsoft Excel format.

Attachment G - Required Price Quote Template

File attached separately in Microsoft Excel format.

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, & 30				1. REQUISITION NUMBER GQ PSA-18-0027		PAGE 1 OF 7		
2. CONTRACT NO. GS-35F-0648Y		3. AWARD/EFFECTIVE DATE 8/15/2018		4. ORDER NUMBER 47HAA018F0341		5. SOLICITATION NUMBER		
7. FOR SOLICITATION INFORMATION CALL:		a. NAME Sharmel Lane			b. TELEPHONE NUMBER (No collect calls) 202-208-7005		6. SOLICITATION ISSUE DATE	
9. ISSUED BY OAS, Office of Internal Acquisition, Acquisition Operations Division 1800 F ST NW Washington, DC 20405 USA				10. THIS ACQUISITION IS <input checked="" type="checkbox"/> UNRESTRICTED OR <input type="checkbox"/> SET ASIDE: _____ % FOR: <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> WOMEN-OWNED SMALL BUSINESS <input type="checkbox"/> HUBZONE SMALL BUSINESS <input type="checkbox"/> (WOSB) ELIGIBLE UNDER THE WOMEN-OWNED SMALL BUSINESS PROGRAM NAICS: 541511 <input type="checkbox"/> SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS <input type="checkbox"/> EDWOSB <input type="checkbox"/> 8 (A) SIZE STANDARD: _____				
11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input type="checkbox"/> SEE SCHEDULE		12. DISCOUNT TERMS		13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700) <input type="checkbox"/>		13b. RATING		
15. DELIVER TO Ofc of Public Bldg IT Services 1800 F ST NW WASHINGTON, DC 20405-0001				16. ADMINISTERED BY OAS, Office of Internal Acquisition, Acquisition Operations Division 1800 F ST NW Washington, DC 20405 USA				
17a. CONTRACTOR/ OFFEROR SPATIAL FRONT INCORPORATED 1568 SPRING HILL ROAD, SUITE 300 MCLEAN, VA 22102-3010 USA CAGE Code: 5XGW3 TELEPHONE NO.		18a. PAYMENT WILL BE MADE BY PBS Payments Branch P.O. Box 17181 Ft. Worth, TX 76102-0181		14. METHOD OF SOLICITATION <input type="checkbox"/> RFQ <input type="checkbox"/> IFB <input type="checkbox"/> RFP				
17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER <input type="checkbox"/>				18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a UNLESS BLOCK BELOW IS CHECKED <input type="checkbox"/> SEE ADDENDUM				
19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES			21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT	
	See below for additional information <i>(Use Reverse and/or Attach Additional Sheets as Necessary)</i>							
25. ACCOUNTING AND APPROPRIATION DATA Please see attached					26. TOTAL AWARD AMOUNT (For Govt. Use Only) \$125,583.40			
27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52 212-1, 52 212-4. FAR 52.212-3 AND 52 212-5 ARE ATTACHED. ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED					27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52 212-4. FAR 52.212-5 IS ATTACHED. ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED			
28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED					29. AWARD OF CONTRACT: REF. _____ OFFER DATED <u>07/16/2018</u> . YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:			
30a. SIGNATURE OF OFFEROR/CONTRACTOR <div style="background-color: black; color: red; text-align: center; padding: 5px;">(b) (6)</div>				31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER) <div style="text-align: right;">SHARMEL LANE <small>Digitally signed by SHARMEL LANE Date: 2018.08.13 15:44:57 -04'00'</small></div>				
30b. NAME AND TITLE OF SIGNER (Type or print) Amy Gao, President of SFI		30c. DATE SIGNED 8/13/2018		31b. NAME OF CONTRACTING OFFICER (Type or print) Sharmel Lane		31c. DATE SIGNED 08/13/2018		

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT

32a. QUANTITY IN COLUMN 21 HAS BEEN

☐ RECEIVED ☐ INSPECTED ☐ ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED: _____

32b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE

32c. DATE

32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE

32e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE

32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE

32g. E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE

33. SHIP NUMBER

34. VOUCHER NUMBER

35. AMOUNT VERIFIED
CORRECT FOR

36. PAYMENT

37. CHECK NUMBER

☐ PARTIAL ☐ FINAL

☐ COMPLETE ☐ PARTIAL ☐ FINAL

38. S/R ACCOUNT NO.

39. S/R VOUCHER NUMBER

40. PAID BY

41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT

41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER

41c. DATE

42a. RECEIVED BY *(Print)*

42b. RECEIVED AT *(Location)*

42c. DATE REC'D *(YY/MM/DD)*

42d. TOTAL CONTAINERS

SF1449 List of Accounting Strings

Accounting String	Amount Obligated
GD-47HAA018F0341.2018.192X.00.P00G4401.PG60.PG994.K50.I31020.....	\$125,583.40

ITEM NO., FORM OR STOCK NUMBER	DESCRIPTION OF ARTICLES OR SERVICES	QUAN-TITY	UNIT OF ISSUE	UNIT PRICE	AMOUNT
0001	<p>Central Facility Repository Support - Base Year</p> <p>The contractor shall provide the following in accordance with their GSA Schedule Contract GS-35F-0648Y, their ITDS BPA No. 47PA0118A0006 and their quote dated July 16, 2018 in the total amount \$3,140,601.55: SOW Section 6.1 - Phase-In SOW Section 3.1 - Operations and Maintenance Support Services SOW Section 3.2 - Program Management SOW Section 3.4 - Tier I-II-III Helpdesk Services GD-47HAA018F0341.2018.192X.00 P00G4401.PG60.PG994.K50.I31020...</p> <p>.....</p> <p>Obligated: (b) (4)</p> <p>PoP: 08/15/2018 - 08/14/2019</p>	1	EA	(b) (4)	(b) (4)
0002	<p>Central Facility Repository (CFR) Support - Base Year SOW Section 3.7 - Optional Enhancements</p> <p>PoP: 08/15/2018 - 08/14/2019</p>	1	EA	(b) (4)	(b) (4)
1001	<p>Central Facility Repository Support - Option Year 1 SOW Section 3.1 - Operations and Maintenance Support Services SOW Section 3.2 - Program</p>	1	EA	(b) (4)	(b) (4)

ITEM NO., FORM OR STOCK NUMBER	DESCRIPTION OF ARTICLES OR SERVICES	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	AMOUNT
1002	Management SOW Section 3.4 - Tier I-II-III Helpdesk Services PoP: 08/15/2019 - 08/14/2020 Central Facility Repository (CFR) Support - Option Year 1 SOW Section 3.7 - Optional Enhancements PoP: 08/15/2019 - 08/14/2020	1	EA	(b) (4)	(b) (4)
2001	Central Facility Repository Support - Option Year 2 SOW Section 3.1 - Operations and Maintenance Support Services SOW Section 3.2 - Program Management SOW Section 3.4 - Tier I-II-III Helpdesk Services PoP: 08/15/2020 - 08/14/2021	1	EA	(b) (4)	(b) (4)
2002	Central Facility Repository (CFR) Support - Option Year 2 SOW Section 3.7 - Optional Enhancements PoP: 08/15/2020 - 08/14/2021	1	EA	(b) (4)	(b) (4)
3001	Central Facility Repository Support - Option Year 3 SOW Section 3.1 - Operations and Maintenance Support Services SOW Section 3.2 - Program Management SOW Section 3.4 - Tier I-II-III Helpdesk Services PoP: 08/15/2021 - 08/14/2022	1	EA	(b) (4)	(b) (4)
3002		1	EA	(b) (4)	(b) (4)

ITEM NO., FORM OR STOCK NUMBER	DESCRIPTION OF ARTICLES OR SERVICES	QUAN-TITY	UNIT OF ISSUE	UNIT PRICE	AMOUNT
4001	Central Facility Repository (CFR) Support - Option Year 3 SOW Section 3.7 - Optional Enhancements PoP: 08/15/2021 - 08/14/2022	1	EA	(b) (4)	(b) (4)
4002	Central Facility Repository (CFR) Support - Option Year 4 SOW Section 3.1 - Operations and Maintenance Support Services SOW Section 3.2 - Program Management SOW Section 3.4 - Tier I-II-III Helpdesk Services PoP: 08/15/2022 - 08/14/2023	1	EA	(b) (4)	(b) (4)
	Central Facility Repository (CFR) Support - Option Year 4 SOW Section 3.7 - Optional Enhancements ~~~~~ ~~~~~ INVOICING INSTRUCTIONS: When invoicing GSA, cite the order number in Block 2 and the contract number in Block 4 of the Standard Form 1449 as well as the Pegasys Document Number (PDN) GD-47HAA018F0341. All invoices should be submitted electronically. Password and electronic invoice access is obtained through GSA's website, https://finance3.gsa.gov . For assistance with how to setup electronic invoicing or payment				

ITEM NO., FORM OR STOCK NUMBER	DESCRIPTION OF ARTICLES OR SERVICES	QUAN-TITY	UNIT OF ISSUE	UNIT PRICE	AMOUNT
	<p>related information, please contact GSA Finance Customer Support (800)676-3690 or FW-CustomerSupport@gsa.gov. A copy of the invoice must be sent to the Program Office POC, Jon Owens (jon.owens@gsa.gov) for approval. A courtesy copy of the invoice must also be sent to the contracting office POC, Sharmel Lane (sharmel.lane@gsa.gov) for the official contract file.</p> <p>PoP: 08/15/2022 - 08/14/2023</p>				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE 1 OF 1 PAGES	
2. AMENDMENT/MODIFICATION NUMBER PA0007		3. EFFECTIVE DATE 6/18/2020		4. REQUISITION/PURCHASE REQUISITION NUMBER GQIPSA-18-0027		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY OAS, Office of Internal Acquisition, Acquisition Services Division (H1AW) 1800 F ST NW Washington, DC 20405 USA		CODE H1AW		7. ADMINISTERED BY (If other than Item 6) OAS, Office of Internal Acquisition, Acquisition Services Division (H1AW) 1800 F ST NW Washington, DC 20405 USA		CODE H1AW	
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) SPATIAL FRONT INCORPORATED 1568 SPRING HILL ROAD, SUITE 300 MCLEAN, VA 22102 DUNS: 833175917 Cage Code: 5XGW3				(X)		9A. AMENDMENT OF SOLICITATION NUMBER	
				<input type="checkbox"/>		9B. DATED (SEE ITEM 11)	
				(X)		10A. MODIFICATION OF CONTRACT/ORDER NUMBER GS35F0648Y/47PA0118A0006/47HAA 018F0341	
				(X)		10B. DATED (SEE ITEM 13) 8/13/2018	
CODE		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required) Modification Obligation Amount: \$0.00							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.						
<input type="checkbox"/>							
<input checked="" type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) The purpose of this administrative modification is to correct the length of the extension under modification no. PS0006 as follows: FROM: "extend the period of performance for the Alfresco enhancement (CLIN 1003) an additional three months through November 19, 2020". TO: "extend the period of performance for the Alfresco enhancement (CLIN 1003) an additional six (6) months through February 19, 2021."							
ALL OTHER CONTRACT TERMS AND CONDITIONS REMAIN UNCHANGED. Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				Sharmel Lane, Contract Specialist/Contracting Officer			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
				SHARMEL LANE Digitally signed by SHARMEL LANE Date: 2020.06.18 00:30:39 -04'00'		06/18/2020	
(Signature of person authorized to sign)				(Signature of Contracting Officer)			

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE 1 OF 2 PAGES		
2. AMENDMENT/MODIFICATION NUMBER PO0005		3. EFFECTIVE DATE 8/15/2020		4. REQUISITION/PURCHASE REQUISITION NUMBER GQIPSA-18-0027		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY OAS, Office of Internal Acquisition, Acquisition Operations Division 1800 F ST NW., 7th Floor Washington, DC 20405 USA		CODE H1AA		7. ADMINISTERED BY (If other than Item 6) OAS, Office of Internal Acquisition, Acquisition Operations Division 1800 F ST NW., 7th Floor Washington, DC 20405 USA		CODE H1AA	
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) SPATIAL FRONT INCORPORATED 1568 SPRING HILL ROAD, SUITE 300 MCLEAN, VA 22102 DUNS: 833175917 Cage Code: 5XGW3				<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NUMBER <input type="checkbox"/> 9B. DATED (SEE ITEM 11) <input checked="" type="checkbox"/> 10A. MODIFICATION OF CONTRACT/ORDER NUMBER GS35F0648Y/47PA0118A0006/47HAA 018F0341 <input type="checkbox"/> 10B. DATED (SEE ITEM 13) 8/13/2018			
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
Modification Obligation Amount: \$146,525.86

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input checked="" type="checkbox"/>	D. OTHER (Specify type of modification and authority) FAR 52.217-9, Option to Extend the Term of the Contract

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)
The purpose of this modification is to exercise and fully fund Option Year 2 (08/15/2020 - 08/14/2021) in the amount of \$146,525.86. The total obligated value has hereby increased from (b) (4).

ALL OTHER CONTRACT TERMS AND CONDITIONS REMAIN UNCHANGED.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Sharmel Lane, Contract Specialist/Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA SHARMEL LANE Digitally signed by SHARMEL LANE Date: 2020.03.07 13:05:24 -05'00'	16C. DATE SIGNED 03/07/2020
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Previous edition unusable

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)
2001	<p>Central Facility Repository Support - Option Year 2</p> <p>SOW Section 3.1 - Operations and Maintenance Support</p> <p>Services SOW Section 3.2 - Program Management SOW Section</p> <p>3.4 - Tier I-II-III Helpdesk Services *This CLIN has hereby</p> <p>increased in value from (b) (4), to</p> <p>(b) (4) to account for the additional O&M work being</p> <p>performed under SOW Section 3.1.1, Ancillary Support Services</p> <p>GD-47HAA018F0341.2020.192X.00.P00G4401.PG60.PG994.K50.I31020..</p> <p>.....</p> <p>Obligated: (b) (4)</p> <p>PoP: 08/15/2020 - 08/14/2021</p>	1	EA	(b) (4)	(b) (4)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE 1 OF 2 PAGES		
2. AMENDMENT/MODIFICATION NUMBER PO0010		3. EFFECTIVE DATE 8/15/2021		4. REQUISITION/PURCHASE REQUISITION NUMBER GQIPSA-18-0027		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY OAS, Office of Internal Acquisition, Acquisition Services Division (H1AW) 1800 F ST NW Washington, DC 20405 USA		CODE H1AW		7. ADMINISTERED BY (If other than Item 6) OAS, Office of Internal Acquisition, Acquisition Services Division (H1AW) 1800 F ST NW Washington, DC 20405 USA		CODE H1AW	
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) SPATIAL FRONT INCORPORATED 1568 SPRING HILL ROAD, SUITE 300 MCLEAN, VA 22102 DUNS: 833175917 Cage Code: 5XGW3				<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NUMBER <input type="checkbox"/> 9B. DATED (SEE ITEM 11) <input checked="" type="checkbox"/> 10A. MODIFICATION OF CONTRACT/ORDER NUMBER GS35F0648Y/47PA0118A0006/47HAA 018F0341 <input type="checkbox"/> 10B. DATED (SEE ITEM 13) 8/13/2018			
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
Modification Obligation Amount: \$147,991.11

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input checked="" type="checkbox"/>	D. OTHER (Specify type of modification and authority) FAR 52.217-9, Option to Extend the Term of the Contract and FAR 52.243-1, Changes - Fixed Price

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)
The purpose of this modification is to: 1) Correct the period of performance for CLIN2004 as follows: FROM: 09/29/2020 - 09/28/2021 TO: 09/29/2020 - 03/28/2022 and; 2) Exercise and fully fund Option Year 3 in the amount of \$147,991.11. The total obligated value has hereby increased from (b) (4) .

ALL OTHER CONTRACT TERMS AND CONDITIONS REMAIN UNCHANGED.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Sharmel Lane, Contract Specialist/Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA SHARMEL LANE Digitally signed by SHARMEL LANE Date: 2021.04.07 12:42:07 -04'00'	16C. DATE SIGNED 04/07/2021
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Previous edition unusable

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)
3001	<p>Central Facility Repository Support - Option Year 3</p> <p>SOW Section 3.1 - Operations and Maintenance Support</p> <p>Services SOW Section 3.2 - Program Management SOW Section</p> <p>3.4 - Tier I-II-III Helpdesk Services *This CLIN has hereby increased in value from (b) (4)</p> <p>(b) (4) to account for the additional O&M work being performed under SOW Section 3.1.1, Ancillary Support Services</p> <p>GD-47HAA018F0341.2021.192X.00.P00G4401.PG60.PG994.H02.I31020..</p> <p>.....</p> <p>Obligated: (b) (4)</p> <p>PoP: 08/15/2021 - 08/14/2022</p>	1	EA	(b) (4)	(b) (4)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE 1 OF 5 PAGES		
2. AMENDMENT/MODIFICATION NUMBER PS0001		3. EFFECTIVE DATE 5/10/2019		4. REQUISITION/PURCHASE REQUISITION NUMBER GQIPSA-18-0027		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY OAS, Office of Internal Acquisition, Acquisition Operations Division 1800 F ST NW, N.W., 7th Floor Washington, DC 20405 USA		CODE H1AA		7. ADMINISTERED BY (If other than Item 6) OAS, Office of Internal Acquisition, Acquisition Operations Division 1800 F ST NW, N.W., 7th Floor Washington, DC 20405 USA		CODE H1AA	
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) SPATIAL FRONT INCORPORATED 1568 SPRING HILL ROAD, SUITE 300 MCLEAN, VA 22102 DUNS: 833175917 Cage Code: 5XGW3				<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NUMBER			
				<input type="checkbox"/> 9B. DATED (SEE ITEM 11)			
				<input checked="" type="checkbox"/> 10A. MODIFICATION OF CONTRACT/ORDER NUMBER GS35F0648Y/47PA0118A0006/47HAA 018F0341			
				<input type="checkbox"/> 10B. DATED (SEE ITEM 13)			
CODE		FACILITY CODE		8/13/2018			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Modification Obligation Amount: \$18,055.32

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input checked="" type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.243-1, Changes - Fixed Price
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not ☒ is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Please see attached

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Theadora Nuckolls, Chief Administrative Officer		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Sharmel Lane, Contract Specialist/Contracting Officer	
15B. CONTRACTOR/OFFEROR (b) (6) (Signature of person authorized to sign)	15C. DATE SIGNED 5/9/19	16B. UNITED STATES OF AMERICA SHARMEL LANE Digitally signed by SHARMEL LANE Date: 2019.05.09 16:27:11 -04'00' (Signature of Contracting Officer)	16C. DATE SIGNED 05/09/2019

Previous edition unusable

STANDARD FORM 30 (REV. 11/2016)
Prescribed by GSA FAR (48 CFR) 53.243

Description of Amendment/Modification

The purpose of this modification is to:

- 1) Accept the contractor's quote dated May 8, 2019 to provide Ancillary Application Support (SOW Section 3.1.1) for the MARC applications (ABP, BITS, BPP and EUAS) that reside on the CFR server for the base year and all option years and;
- 2) Provide funding in the amount of \$18,055.32 for this additional work. The total obligated value of this contract has hereby increased from \$125,583.40, by \$18,055.32, to \$143,638.72.

ALL OTHER CONTRACT TERMS AND CONDITIONS REMAIN UNCHANGED.

ITEM NO., FORM OR STOCK NUMBER	DESCRIPTION OF ARTICLES OR SERVICES	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	AMOUNT
0003	<p>Central Facility Repository Support - Base Year</p> <p>Accept the contractor's quote dated May 7, 2019 to include Ancillary Application Support (SOW Section 3.1.1) to add Operations and Maintenance Support services for the MARC applications (ABP, BITS, BPP and EUAS) that reside on the CFR server.</p> <p>GD-47HAA018F0341.2019.192X.00 P00G4401.PG60.PG994.K50.I31020...</p> <p>.....</p> <p>Obligated: (b) (4)</p> <p>PoP: 08/15/2018 - 08/14/2019</p>	1	EA	(b) (4)	(b) (4)
1001	<p>Central Facility Repository Support - Option Year 1</p> <p>SOW Section 3.1 - Operations and Maintenance Support Services SOW Section 3.2 - Program Management SOW Section 3.4 - Tier I-II-III Helpdesk Services *This CLIN has hereby increased in value from (b) (4) to (b) (4) to account for the additional O&M work being performed under SOW Section 3.1.1, Ancillary Support Services</p> <p>PoP: 08/15/2019 - 08/14/2020</p>	1	EA	(b) (4)	(b) (4)

ITEM NO., FORM OR STOCK NUMBER	DESCRIPTION OF ARTICLES OR SERVICES	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	AMOUNT
2001	Central Facility Repository Support - Option Year 2 SOW Section 3.1 - Operations and Maintenance Support Services SOW Section 3.2 - Program Management SOW Section 3.4 - Tier I-II-III Helpdesk Services *This CLIN has hereby increased in value from (b) (4) to (b) (4) to account for the additional O&M work being performed under SOW Section 3.1.1, Ancillary Support Services PoP: 08/15/2020 - 08/14/2021	1	EA	(b) (4)	(b) (4)
3001	Central Facility Repository Support - Option Year 3 SOW Section 3.1 - Operations and Maintenance Support Services SOW Section 3.2 - Program Management SOW Section 3.4 - Tier I-II-III Helpdesk Services *This CLIN has hereby increased in value from (b) (4) to (b) (3) (B) to account for the additional O&M work being performed under SOW Section 3.1.1, Ancillary Support Services PoP: 08/15/2021 - 08/14/2022	1	EA	(b) (4)	(b) (4)
4001	Central Facility Repository	1	EA	(b) (4)	(b) (4)

ITEM NO., FORM OR STOCK NUMBER	DESCRIPTION OF ARTICLES OR SERVICES	QUAN-TITY	UNIT OF ISSUE	UNIT PRICE	AMOUNT
	Support - Option Year 4 SOW Section 3.1 - Operations and Maintenance Support Services SOW Section 3.2 - Program Management SOW Section 3.4 - Tier I-II-III Helpdesk Services *This CLIN has hereby increased in value from (b) (4) to (b) (4) to account for the additional O&M work being performed under SOW Section 3.1.1, Ancillary Support Services PoP: 08/15/2022 - 08/14/2023				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE 1 OF 3 PAGES		
2. AMENDMENT/MODIFICATION NUMBER PS0002		3. EFFECTIVE DATE H1AA		4. REQUISITION/PURCHASE REQUISITION NUMBER GQIPSA-18-0027		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY OAS, Office of Internal Acquisition, Acquisition Operations Division 1800 F ST NW, N.W., 7th Floor Washington, DC 20405 USA		7. ADMINISTERED BY (If other than Item 6) OAS, Office of Internal Acquisition, Acquisition Operations Division 1800 F ST NW, N.W., 7th Floor Washington, DC 20405 USA		CODE H1AA		H1AA	
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) SPATIAL FRONT INCORPORATED 1568 SPRING HILL ROAD, SUITE 300 MCLEAN, VA 22102 DUNS: 833175917 Cage Code: 5XGW3				<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NUMBER <input type="checkbox"/> 9B. DATED (SEE ITEM 11) <input checked="" type="checkbox"/> 10A. MODIFICATION OF CONTRACT/ORDER NUMBER GS35F0648Y/47PA0118A0006/47HAA 018F0341 <input checked="" type="checkbox"/> 10B. DATED (SEE ITEM 13) 8/13/2018		CODE FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Modification Obligation Amount: \$214,808.14

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input checked="" type="checkbox"/>	D. OTHER (Specify type of modification and authority) FAR 52.243-1, Changes - Fixed Price and 52.217-9, Option to Extend the Term of the Contract

E. IMPORTANT: Contractor ☐ is not ☒ is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)

Please see attached

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Theadora Nuckolls, CAO		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Sharmel Lane, Contract Specialist/Contracting Officer	
15B. CONTRACTOR/OFFEROR Theadora Nuckolls <small>Digitally signed by Theadora Nuckolls Date: 2019.06.20 16:21:33 -04'00'</small>	15C. DATE SIGNED 06/20/2019	16B. UNITED STATES OF AMERICA SHARMEL LANE <small>Digitally signed by SHARMEL LANE Date: 2019.06.20 16:45:51 -04'00'</small>	16C. DATE SIGNED 6/20/2019
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Previous edition unusable

Description of Amendment/Modification

The purpose of this modification is to:

- 1) Accept the contractor's revised proposal, dated June 17, 2019, in the amount of (b) (4) to provide custom code enhancements to the CFR application (POP: 6/20/19 - 6/19/2020);
- 2) Exercise and fully fund Option Year 1 (POP: 08/14/2019 - 08/13/2020) in the amount of (b) (4) and;
- 3) Provide additional funding in the amount (b) (4) for this additional work. The total obligated value of this order is (b) (4)

ALL OTHER CONTRACT TERMS AND CONDITIONS REMAIN UNCHANGED.

ITEM NO., FORM OR STOCK NUMBER	DESCRIPTION OF ARTICLES OR SERVICES	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	AMOUNT
0004	<p>Central Facility Repository Support - Base Year</p> <p>Accept the contractor's revised quote dated June 17, 2019 to provide custom code enhancements to the CFR application.</p> <p>GD-47HAA018F0341.2019.192X.00</p> <p>P00G4401.PG60.PG995.M55.I31022...</p> <p>.....</p> <p>Obligated: (b) (4)</p> <p>PoP: 06/20/2019 - 06/19/2020</p>	1	EA	(b) (4)	(b) (4)
1001	<p>Central Facility Repository Support - Option Year 1</p> <p>SOW Section 3.1 - Operations and Maintenance Support Services SOW</p> <p>Section 3.2 - Program Management SOW</p> <p>Section 3.4 - Tier I-II-III Helpdesk Services</p> <p>*This CLIN has hereby increased in value from (b) (4), to (b) (4) to account for the additional O&M work being performed under SOW Section 3.1.1, Ancillary Support Services</p> <p>GD-47HAA018F0341.2019.192X.00</p> <p>P00G4401.PG60.PG994.K50.I31020...</p> <p>.....</p> <p>Obligated: (b) (4)</p> <p>PoP: 08/15/2019 - 08/14/2020</p>	1	EA	(b) (4)	(b) (4)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE 1 OF 3 PAGES		
2. AMENDMENT/MODIFICATION NUMBER PS0003		3. EFFECTIVE DATE 8/20/2019		4. REQUISITION/PURCHASE REQUISITION NUMBER GQIPSA-18-0027		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY OAS, Office of Internal Acquisition, Acquisition Operations Division 1800 F ST NW, N.W., 7th Floor Washington, DC 20405 USA		CODE H1AA		7. ADMINISTERED BY (If other than Item 6) OAS, Office of Internal Acquisition, Acquisition Operations Division 1800 F ST NW, N.W., 7th Floor Washington, DC 20405 USA		CODE H1AA	
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) SPATIAL FRONT INCORPORATED 1568 SPRING HILL ROAD, SUITE 300 MCLEAN, VA 22102 DUNS: 833175917 Cage Code: 5XGW3				<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NUMBER <input type="checkbox"/> 9B. DATED (SEE ITEM 11) <input checked="" type="checkbox"/> 10A. MODIFICATION OF CONTRACT/ORDER NUMBER GS35F0648Y/47PA0118A0006/47HAA 018F0341 <input type="checkbox"/> 10B. DATED (SEE ITEM 13) 8/13/2018			
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
Modification Obligation Amount: \$307,750.08

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input checked="" type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.243-1, Changes - Fixed Price
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not ☒ is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)
Please see attached

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Shawn Zhang, Executive Vice President		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Sharmel Lane, Contract Specialist/Contracting Officer	
15B. CONTRACTOR/OFFEROR (b) (6) (Signature of person authorized to sign)	15C. DATE SIGNED 8/19/2019	16B. UNITED STATES OF AMERICA SHARMEL LANE Digitally signed by SHARMEL LANE Date: 2019.08.20 10:55:23 -04'00' (Signature of Contracting Officer)	16C. DATE SIGNED 08/20/2019

Previous edition unusable

Description of Amendment/Modification

The purpose of this modification is to:

- 1) Accept the contractor's revised quote dated August 11, 2019 to provide the following enhancement to the CFR application: Alfresco upgrade. The period of performance for this enhancement is August 20, 2019 through August 19, 2020.
- 2) Provide additional funding in the amount of \$307,750.08 for this enhancement work. The total obligated value has hereby increased from (b) (4).

ALL OTHER CONTRACT TERMS AND CONDITIONS REMAIN UNCHANGED.

ITEM NO., FORM OR STOCK NUMBER	DESCRIPTION OF ARTICLES OR SERVICES	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	AMOUNT
1003	<p>Central Facility Repository Support - Option Year 1</p> <p>Accept the contractor's revised quote dated August 11, 2019 to provide Alfresco upgrades to the CFR application as follows: 1. Alfresco ECM 2. Alfresco Share 3. BIM Server 4. Formtek EDM 5. Security 6. Availability 7. Deployment Documentation 8. Reports (optional) 9. Formtek Connector (optional) 10. Map (optional) 11. Standardize Content Model (optional) 12. Database Conversion (optional)</p> <p>GD-47HAA018F0341.2019.192X.00 P00G4402.PG60.PG995.M55.I45621...</p> <p>.....</p> <p>Obligated: (b) (4)</p> <p>PoP: 08/20/2019 - 08/19/2020</p>	1	EA	(b) (4)	(b) (4)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE 1 OF 8 PAGES	
2. AMENDMENT/MODIFICATION NUMBER PS0004		3. EFFECTIVE DATE H1AA		4. REQUISITION/PURCHASE REQUISITION NUMBER GQIPSA-18-0027		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY OAS, Office of Internal Acquisition, Acquisition Operations Division 1800 F ST NW., 7th Floor Washington, DC 20405 USA		7. ADMINISTERED BY (If other than Item 6) OAS, Office of Internal Acquisition, Acquisition Operations Division 1800 F ST NW., 7th Floor Washington, DC 20405 USA		CODE H1AA			
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) SPATIAL FRONT INCORPORATED 1568 SPRING HILL ROAD, SUITE 300 MCLEAN, VA 22102 DUNS: 833175917 Cage Code: 5XGW3				(X)		9A. AMENDMENT OF SOLICITATION NUMBER	
				<input type="checkbox"/>		9B. DATED (SEE ITEM 11)	
				<input checked="" type="checkbox"/>		10A. MODIFICATION OF CONTRACT/ORDER NUMBER GS35F0648Y/47PA0118A0006/47HAA 018F0341	
				<input checked="" type="checkbox"/>		10B. DATED (SEE ITEM 13) 8/13/2018	
CODE		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required) Modification Obligation Amount: \$0.00							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.						
<input type="checkbox"/>							
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
<input checked="" type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Mutual Agreement of the Contracting Parties in accordance with FAR 43.103(a)(3)						
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input type="checkbox"/> is not <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible) Please see attached							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print) Jennifer A. Davis Vice President, HR & Contracts				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Sharmel Lane, Contract Specialist/Contracting Officer			
15B. CONTRACTOR/OFFEROR <div style="background-color: black; color: red; font-size: 2em; padding: 5px; display: inline-block;">(b) (6)</div>		15C. DATE SIGNED 01/28/2020		16B. UNITED STATES OF AMERICA SHARMEL LANE Digitally signed by SHARMEL LANE Date: 2020.01.28 09:15:42 -05'00'		16C. DATE SIGNED 01/28/2020	
		(Signature of Contracting Officer)					

INSTRUCTIONS (*Back Page*):

Instructions for items other than those that are self-explanatory, are as follows:

- (a) Item 1 (Contract ID Code). Insert the contract type identification code that appears in the title block of the contract being modified.
- (b) Item 3 (Effective date).
- (1) For a solicitation amendment, change order, or administrative change, the effective date shall be the issue date of the amendment, change order, or administrative change.
- (2) For a supplemental agreement, the effective date shall be the date agreed to by the contracting parties.
- (3) For a modification issued as an initial or confirming notice of termination for the convenience of the Government, the effective date and the modification number of the confirming notice shall be the same as the effective date and modification number of the initial notice.
- (4) For a modification converting a termination for default to a termination for the convenience of the Government, the effective date shall be the same as the effective date of the termination for default.
- (5) For a modification confirming the contracting officer's determination of the amount due in settlement of a contract termination, the effective date shall be the same as the effective date of the initial decision.
- (c) Item 6 (Issued By). Insert the name and address of the issuing office. If applicable, insert the appropriate issuing office code in the code block.
- (d) Item 8 (Name and Address of Contractor). For modifications to a contract or order, enter the contractor's name, address, and code as shown in the original contract or order, unless changed by this or a previous modification.
- (e) Items 9, (Amendment of Solicitation Number - Dated), and 10, (Modification of Contract/Order Number - Dated). Check the appropriate box and in the corresponding blanks insert the number and date of the original solicitation, contract, or order.
- (f) Item 12 (Accounting and Appropriation Data). When appropriate, indicate the impact of the modification on each affected accounting classification by inserting one of the following entries:
- (1) Accounting classification _____
Net increase \$ _____
- (2) Accounting classification _____
Net decrease \$ _____
- NOTE: If there are changes to multiple accounting classifications that cannot be placed in block 12, insert an asterisk and the words "See continuation sheet".
- (g) Item 13. Check the appropriate box to indicate the type of modification. Insert in the corresponding blank the authority under which the modification is issued. Check whether or not contractor must sign this document. (See FAR 43.103.)
- (h) Item 14 (Description of Amendment/Modification).
- (1) Organize amendments or modifications under the appropriate Uniform Contract Format (UCF) section headings from the applicable solicitation or contract. The UCF table of contents, however, shall not be set forth in this document.
- (2) Indicate the impact of the modification on the overall total contract price by inserting one of the following entries:
- (i) Total contract price increased by \$ _____
- (ii) Total contract price decreased by \$ _____
- (iii) Total contract price unchanged.
- (3) State reason for modification.
- (4) When removing, reinstating, or adding funds, identify the contract items and accounting classifications.
- (5) When the SF 30 is used to reflect a determination by the contracting officer of the amount due in settlement of a contract terminated for the convenience of the Government, the entry in Item 14 of the modification may be limited to --
- (i) A reference to the letter determination; and
- (ii) A statement of the net amount determined to be due in settlement of the contract.
- (6) Include subject matter or short title of solicitation/contract where feasible.
- (i) Item 16B. The contracting officer's signature is not required on solicitation amendments. The contracting officer's signature is normally affixed last on supplemental agreements.

SF 30, block 14:

1. This contract is hereby modified to include the following clauses:

FAR 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (AUG 2019)

GSAR 552.204-70, Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment (DEVIATION I)(AUG 2019)

2. The full text of the incorporated clauses are provided below:

FAR 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2019)

(a) *Definitions.* As used in this clause—

“Covered foreign country” means The People’s Republic of China.

“Covered telecommunications equipment or services” means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

“Critical technology” means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

“Substantial or essential component” means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) *Prohibition.* Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in Federal Acquisition Regulation [4.2104](#).

(c) *Exceptions.* This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) Reporting requirement.

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

GSAR 552.204-70, Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment (DEVIATION I)(AUG 2019)

(a) *Definitions*. As used in this clause-

“Covered telecommunications equipment or services”, “Critical technology”, and “Substantial or essential component” have the meanings provided in FAR 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

(b) *Prohibition.* Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. Contractors are not prohibited from providing-

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(c) *Representation.* [Contractor to complete and submit to the Contracting Officer] The Offeror or Contractor represents that it [] will or [] will not provide covered telecommunications equipment or services to the Government in the performance of any contract, subcontract, order, or other contractual instrument resulting from this contract. This representation shall be provided as part of the proposal and resubmitted on an annual basis from the date of award.

(d) *Disclosures.* If the Offeror or Contractor has responded affirmatively to the representation in paragraph (c) of this clause, the Offeror or Contractor shall provide the following additional information to the Contracting Officer--

(1) All covered telecommunications equipment and services offered or provided (include brand; model number, such as original equipment manufacturer (OEM) number, manufacturer part number, or wholesaler number; and item description, as applicable);

(2) Explanation of the proposed use of covered telecommunications equipment and services and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b) of this provision;

(3) For services, the entity providing the covered telecommunications services (include entity name, unique entity identifier, and Commercial and Government Entity (CAGE) code, if known); and

(4) For equipment, the entity that produced the covered telecommunications equipment (include entity name, unique entity identifier, CAGE code, and whether the entity was the OEM or a distributor, if known).

(End of clause)

3. GSAM Representation

Please complete the representation on the following page to comply with GSAR 552.204-70(c).

4. All other terms and conditions of the contract remain unchanged.

GSAM 552.204-70(c) Representation

Please provide contact information for an authorized point of contact from your organization.

First Name: (b) (6)
Last Name: (b) (6)
Email Address: (b) (6) spatialfront.com

Please select the statement that applies to you:

- ☐ In accordance with GSAR 552.204-70(c), the Offeror or Contractor represents that **it will provide** covered telecommunications equipment or services to the Government in the performance of any contract, subcontract, order, or other contractual instrument resulting from this contract. This representation shall be provided as part of the proposal and resubmitted on an annual basis from the date of award.
- ☒ In accordance with GSAR 552.204-70(c), the Offeror or Contractor represents that **it will not provide** covered telecommunications equipment or services to the Government in the performance of any contract, subcontract, order, or other contractual instrument resulting from this contract. This representation shall be provided as part of the proposal and resubmitted on an annual basis from the date of award.

If the offeror or contractor has responded affirmatively to the representation above, disclosures required at GSAR 552.204-70(d) must be provided to the Contracting Officer.

I certify that the information I provided is true and correct and that this survey has been completed by an authorized representative of the contractor.

- ☒ Yes
- ☐ No

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE 1 OF 1 PAGES	
2. AMENDMENT/MODIFICATION NUMBER PS0006		3. EFFECTIVE DATE 6/17/2020		4. REQUISITION/PURCHASE REQUISITION NUMBER GQIPSA-18-0027		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY OAS, Office of Internal Acquisition, Acquisition Services Division (H1AW) 1800 F ST NW Washington, DC 20405 USA		CODE H1AW		7. ADMINISTERED BY (If other than Item 6) OAS, Office of Internal Acquisition, Acquisition Services Division (H1AW) 1800 F ST NW Washington, DC 20405 USA		CODE H1AW	
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) SPATIAL FRONT INCORPORATED 1568 SPRING HILL ROAD, SUITE 300 MCLEAN, VA 22102 DUNS: 833175917 Cage Code: 5XGW3				(X)		9A. AMENDMENT OF SOLICITATION NUMBER	
						9B. DATED (SEE ITEM 11)	
				(X)		10A. MODIFICATION OF CONTRACT/ORDER NUMBER GS35F0648Y/47PA0118A0006/47HAA 018F0341	
CODE				FACILITY CODE		10B. DATED (SEE ITEM 13) 8/13/2018	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Modification Obligation Amount: \$0.00

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input checked="" type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.243-1, Changes - Fixed Price
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not ☒ is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)

The purpose of this modification is to extend the period of performance for the Alfresco enhancement (CLIN 1003) by three (3) months through November 19, 2020 at no additional cost to the Government.

ALL OTHER CONTRACT TERMS AND CONDITIONS REMAIN UNCHANGED.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Jenifer A. Davis VP, HR & Contracts		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Sharmel Lane, Contract Specialist/Contracting Officer	
15B. CONTRACTOR/OFFEROR (b) (6)	15C. DATE SIGNED 06/17/2020	16B. UNITED STATES OF AMERICA SHARMEL LANE Digitally signed by SHARMEL LANE Date: 2020.06.17 10:47:32 -04'00' (Signature of Contracting Officer)	16C. DATE SIGNED 06/17/2020

Previous edition unusable

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE 1 OF 2 PAGES	
2. AMENDMENT/MODIFICATION NUMBER PS0008		3. EFFECTIVE DATE 9/29/2020		4. REQUISITION/PURCHASE REQUISITION NUMBER GQIPSA-18-0027		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY OAS, Office of Internal Acquisition, Acquisition Services Division (H1AW) 1800 F ST NW Washington, DC 20405 USA		CODE H1AW		7. ADMINISTERED BY (If other than Item 6) OAS, Office of Internal Acquisition, Acquisition Services Division (H1AW) 1800 F ST NW Washington, DC 20405 USA		CODE H1AW	
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) SPATIAL FRONT INCORPORATED 1568 SPRING HILL ROAD, SUITE 300 MCLEAN, VA 22102 DUNS: (b) (4) Cage Code: (b) (4)				(X)		9A. AMENDMENT OF SOLICITATION NUMBER	
				<input type="checkbox"/>		9B. DATED (SEE ITEM 11)	
				(X)		10A. MODIFICATION OF CONTRACT/ORDER NUMBER GS35F0648Y/47PA0118A0006/47HAA 018F0341	
				(X)		10B. DATED (SEE ITEM 13) 8/13/2018	
CODE		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required) Modification Obligation Amount: \$684,253.53							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.						
<input type="checkbox"/>							
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
<input checked="" type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.243-1, Changes - Fixed Price						
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input type="checkbox"/> is not <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)							
The purpose of this modification is as follows: 1) Accept the contractor's revised quotes dated August 25, 2020 and September 3, 2020 to provide the following enhancements to the CFR application: Enhance BIM Services (POP: 09/29/2020 - 09/28/2021) and API Integration (POP: 09/29/2021 - 02/28/2021). 2) Provide additional funding in the amount of (b) (4) for this enhancement work. The total obligated contract value has hereby increased from (b) (4). ALL OTHER CONTRACT TERMS AND CONDITIONS REMAIN UNCHANGED. Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print) Shawn Zhang, Executive Vice President				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Sharmel Lane, Contract Specialist/Contracting Officer			
15B. CONTRACTOR/OFFEROR (b) (6) (Signature of person authorized to sign)		15C. DATE SIGNED 9/29/2020		16B. UNITED STATES OF AMERICA SHARMEL LANE Digitally signed by SHARMEL LANE Date: 2020.09.29 23:45:45 -04'00' (Signature of Contracting Officer)		16C. DATE SIGNED 09/29/2020	

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)
2003	Central Facility Repository Support - Option Year 2 Accept the contractor's revised quote, dated September 3, 2020, to provide the following enhancement to the CFR application: API Integration PoP: 09/29/2020 - 02/27/2021	1	EA	(b) (4)	(b) (4)
2004	Central Facility Repository Support - Option Year 2 Accept the contractor's revised quote dated August 25, 2020 for the Ecodomus solution to provide Alfresco upgrades to the CFR application as follows: BIM Services Task 1 - BIM Software Licenses (Qty. 150 for 1 year) Task 1 - Mobile Licenses (Qty. 20 for 1 year) Task 2 - Phases 1 and 2 Task 3 - Enhancements Task 3 -Additional Enhancements PoP: 09/29/2020 - 09/28/2021	1	EA	(b) (4)	(b) (4)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE 1 OF 2 PAGES		
2. AMENDMENT/MODIFICATION NUMBER PS0009		3. EFFECTIVE DATE 11/10/2020		4. REQUISITION/PURCHASE REQUISITION NUMBER GQIPSA-18-0027		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY OAS, Office of Internal Acquisition, Acquisition Services Division (H1AW) 1800 F ST NW Washington, DC 20405 USA		CODE H1AW		7. ADMINISTERED BY (If other than Item 6) OAS, Office of Internal Acquisition, Acquisition Services Division (H1AW) 1800 F ST NW Washington, DC 20405 USA		CODE H1AW	
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) SPATIAL FRONT INCORPORATED 1568 SPRING HILL ROAD, SUITE 300 MCLEAN, VA 22102 DUNS: 833175917 Cage Code: 5XGW3				<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NUMBER <input type="checkbox"/> 9B. DATED (SEE ITEM 11) <input checked="" type="checkbox"/> 10A. MODIFICATION OF CONTRACT/ORDER NUMBER GS35F0648Y/47PA0118A0006/47HAA 018F0341 <input type="checkbox"/> 10B. DATED (SEE ITEM 13) 8/13/2018			
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Modification Obligation Amount: \$0.00

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input checked="" type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.243-1, Changes - Fixed Price
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not ☒ is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)

The purpose of this no-cost modification is to change the verbiage for Task #12 - Database Conversion (Bullet Nos. 1 and 7) for the Alfresco upgrade enhancement (issued with Mod PS0003, extended with Mod PS0006) as follows:
FROM:

Jointly select a new, approved database platform with the GSA PM and convert from Oracle to...

[See Description of Modification Continuation Page]

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Jennifer A. Davis VP, HR & Contracts		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Sharmel Lane, Contract Specialist/Contracting Officer	
15B. CONTRACTOR/OFFEROR (b) (6)	15C. DATE SIGNED 11/10/2020	16B. UNITED STATES OF AMERICA SHARMEL LANE Digitally signed by SHARMEL LANE Date: 2020.11.10 16:32:12 -05'00' (Signature of Contracting Officer)	16C. DATE SIGNED 11/10/2020

Description of Modification Continuation Page

... the new platform. Approved platforms are: MySQL, SQL Server and PostgreSQL.

- Review configuration options for the selected database components with the GSA PM, identifying requirements in CFR's best interest and implement.
- Configure and tune the new database platform according to best practices.
- Name each new database in accordance with its associated CFR environment (e.g. CFRPROD, CFRTEST, CFRINT, CFRDEV).
- Migrate the Alfresco repository to the selected database platform.
- Convert all CFR database objects (e.g. tables, views, stored procedures, functions) to the selected database platform.
- Encrypt communication with the new database. Encrypt all database data at rest.

TO:

- Upgrade the existing Oracle version 18c database to Oracle version 19c.
- Review configuration options for the selected database components with the GSA PM, identifying requirements in CFR's best interest and implement.
- Configure and tune the database according to best practices.
- Name each new database in accordance with its associated CFR environment (e.g. CFRPROD, CFRTEST, CFRINT, CFRDEV).
- Migrate the Alfresco repository to the selected database platform.
- Convert all CFR database objects (e.g. tables, views, stored procedures, functions) to the new database version, improving code as applicable.
- Develop a solution to verify the completion of ETL processes, stored procedures and scheduled tasks. The CFR support team would be notified of any errors through email.
- Develop a solution to validate whether geographic locations (Latitude, Longitude) reside within American territories.
- Add referential integrity to database tables wherever applicable, to ensure that invalid values cannot be recorded. The concept expands beyond the Alfresco based validation that exists today, to guarantee that data acquired via other paths is also valid. Planning should include the management of Alfresco-based validation actions when data updates are observed.
- Add validation to database tables wherever applicable and referential integrity is not an option, to ensure that invalid values cannot be recorded. The concept expands beyond the Alfresco-based validation that exists today, to guarantee that data acquired via other paths is also valid. Planning should include the management of Alfresco-based validation actions when data updates are observed.
- Develop a solution to validate database table consistency against the Alfresco repository.
- Develop a solution to consolidate activity log records and archive log records (e.g. activity log, 3D PDF conversion logs).
- Develop a solution in Alfresco to validate that the state prefix of assigned Primary Location Codes in metadata matches the State Code of the state folder in the hierarchical folder chain. Exemptions will apply for Program Support folders and specialized sites (e.g. Sandbox).

ALL OTHER CONTRACT TERMS AND CONDITIONS REMAIN UNCHANGED.